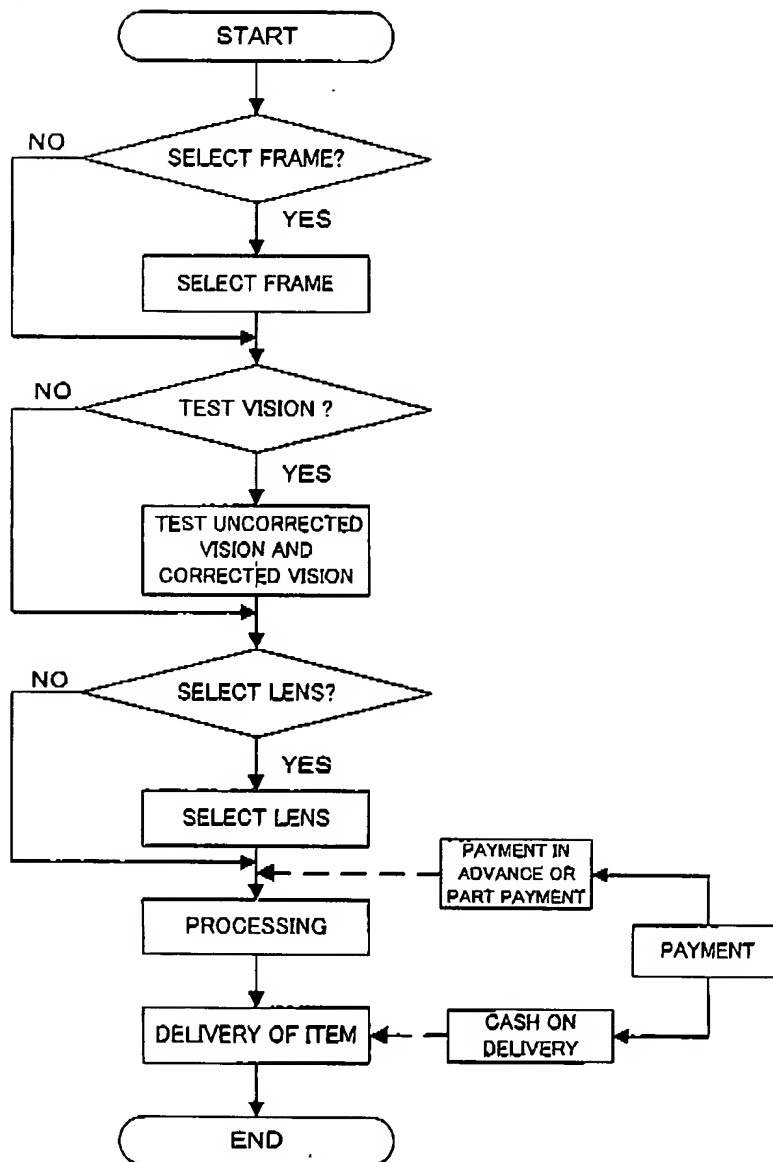


Fig. 1

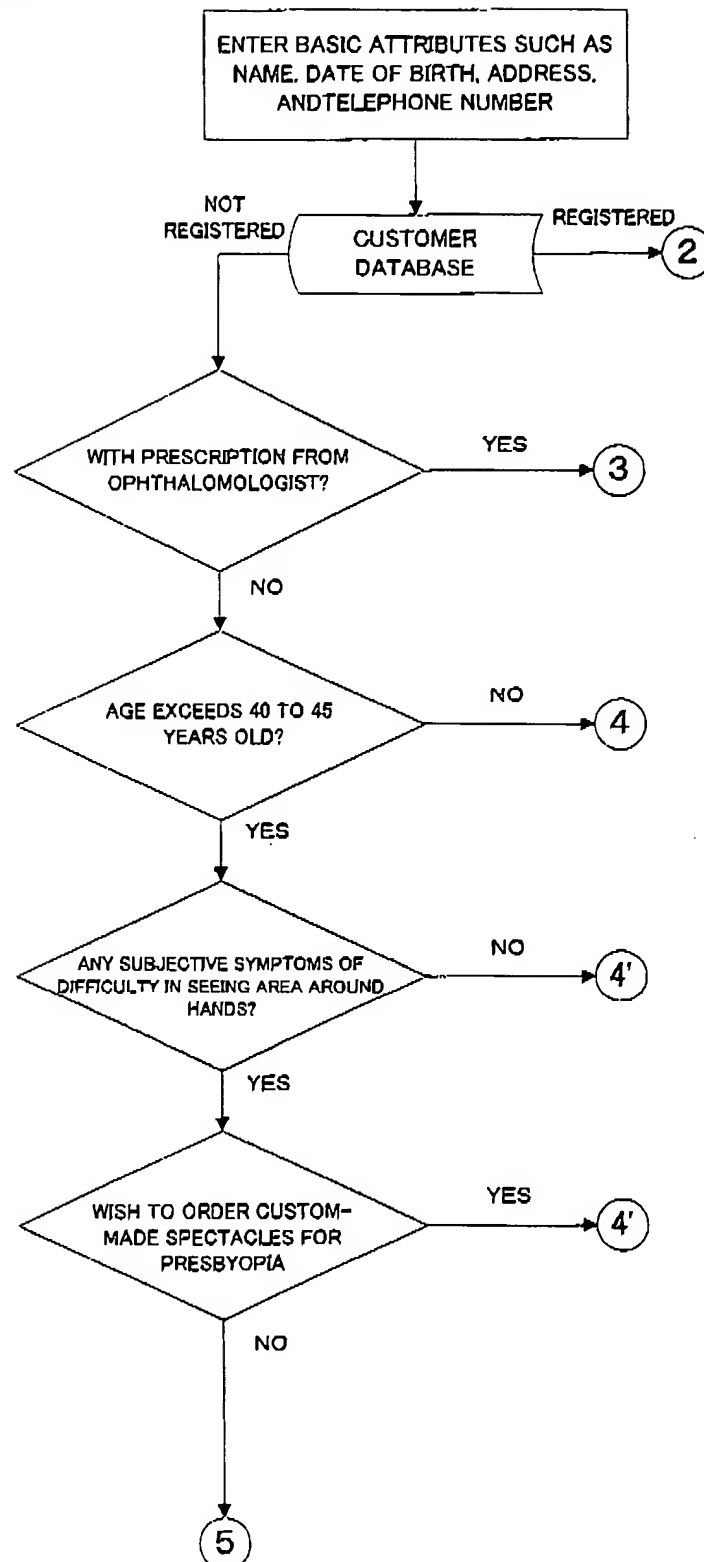
2/60

Fig. 2



3/60

Fig. 3



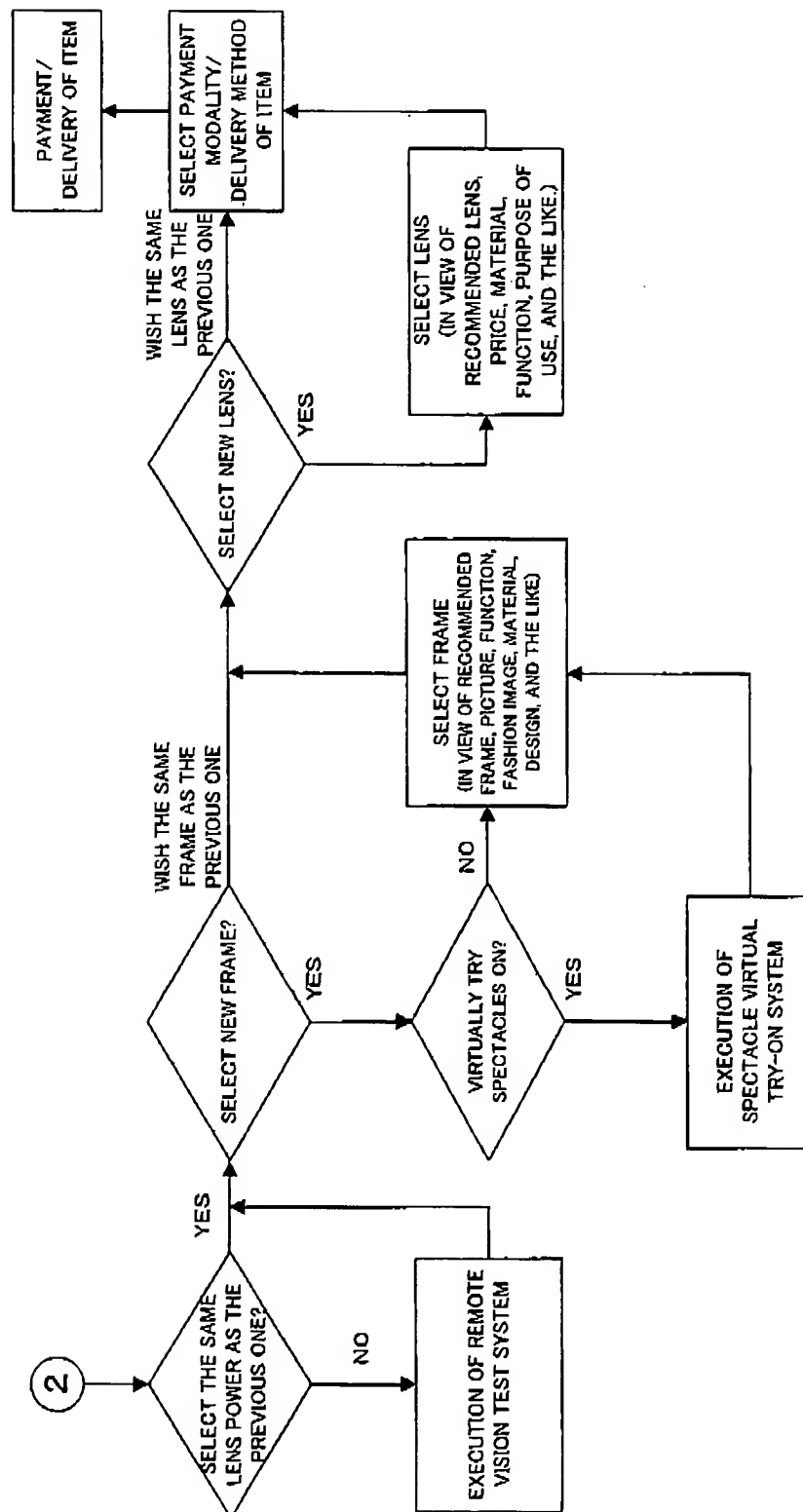
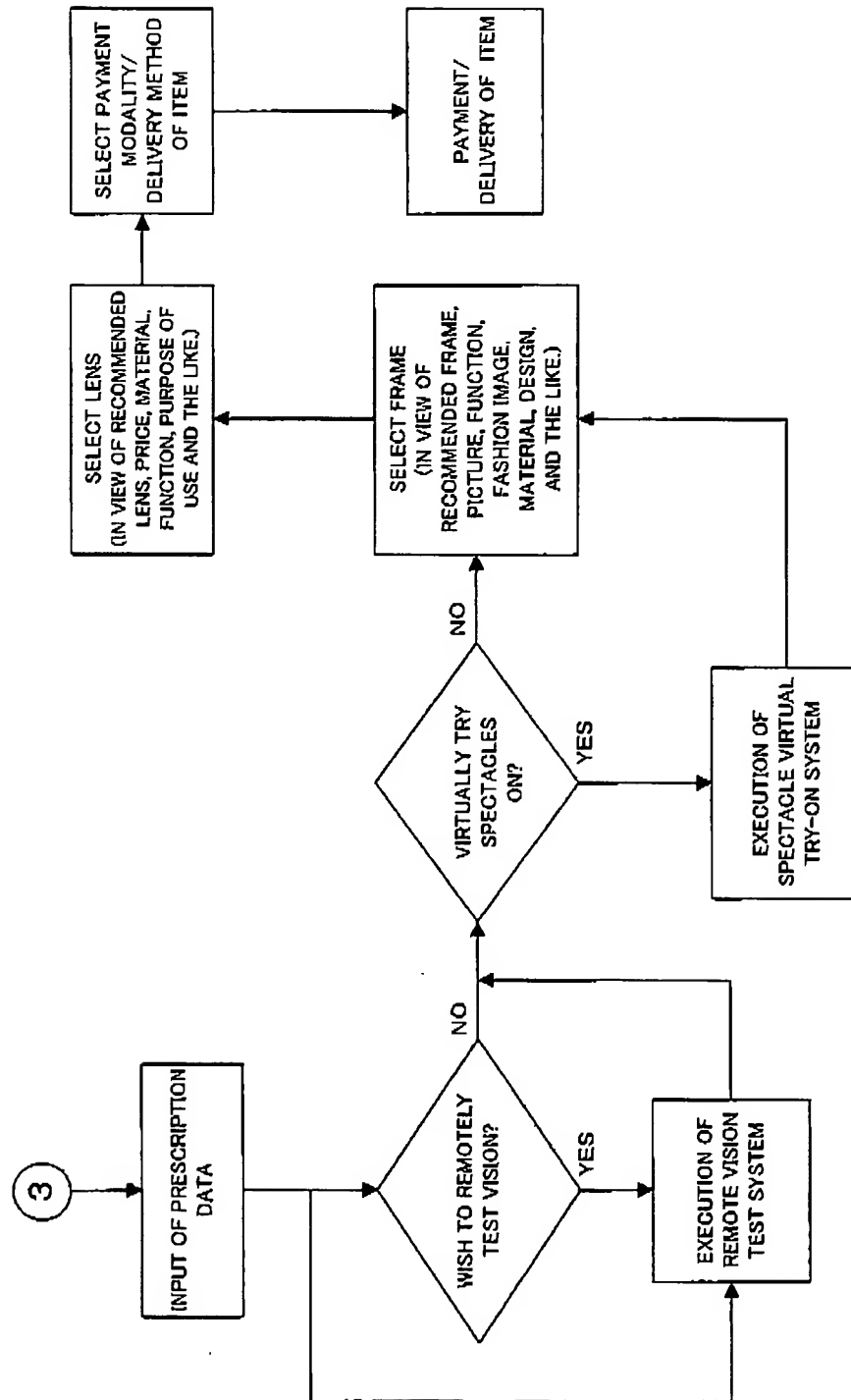


Fig. 4

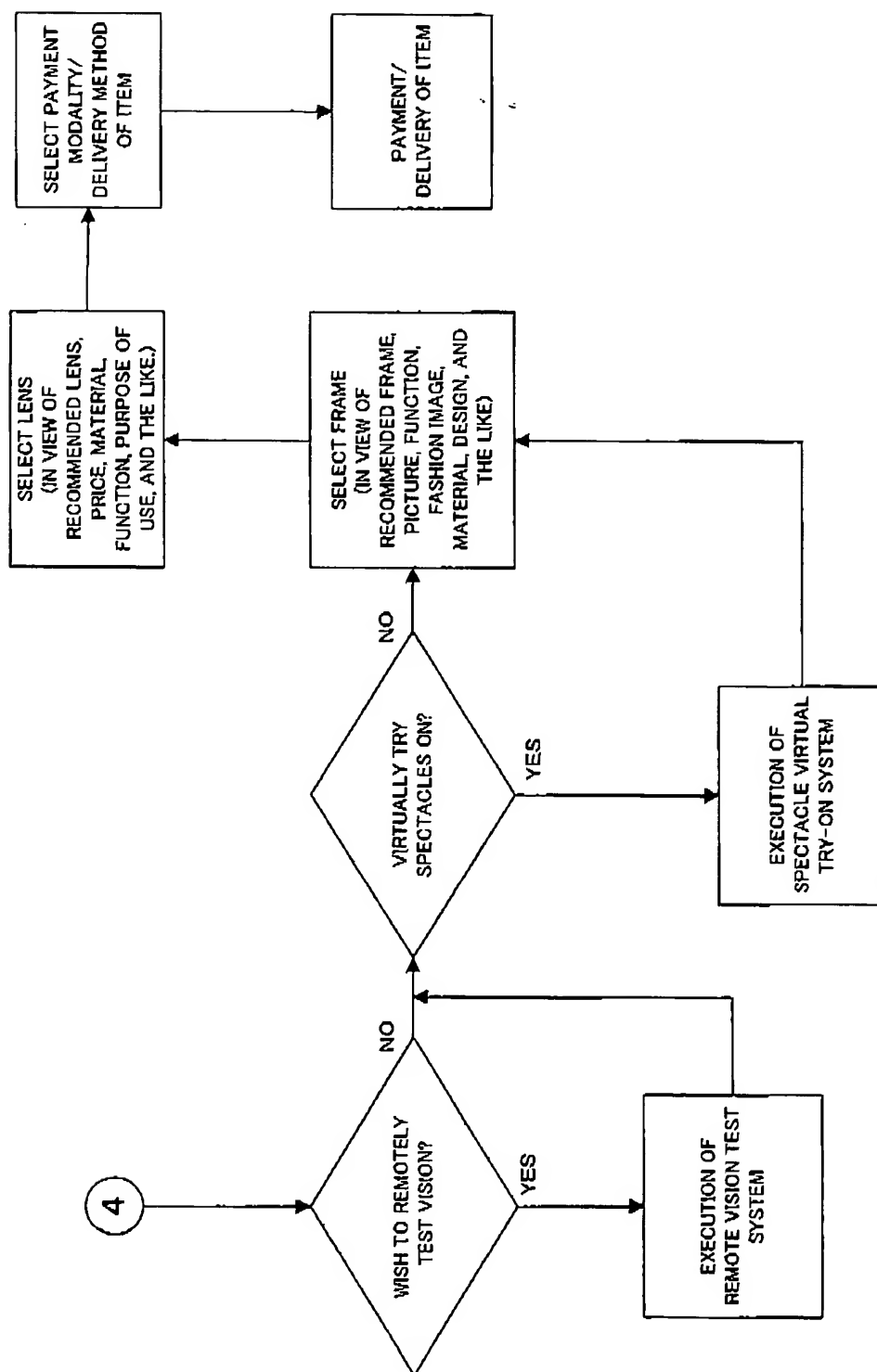
5/60

Fig. 5



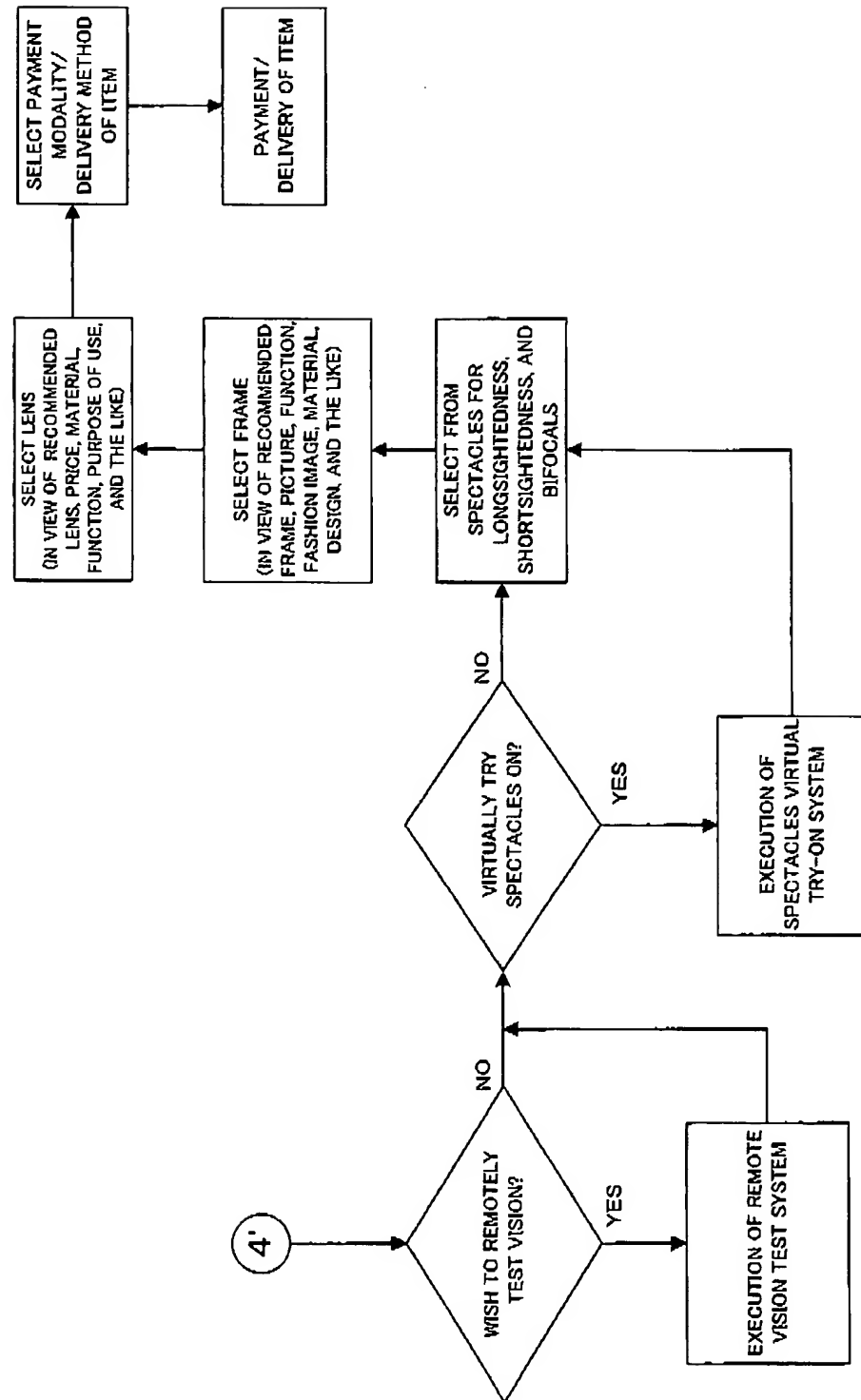
6/60

Fig. 6



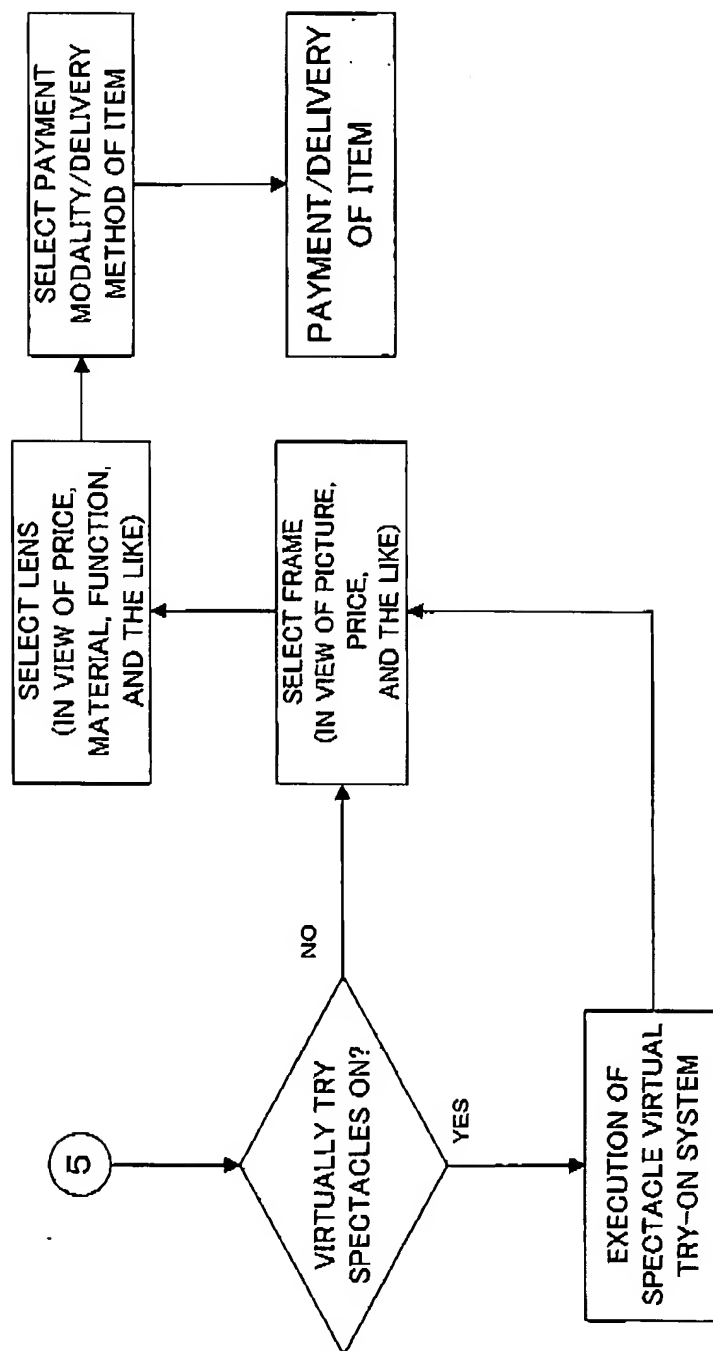
7/60

Fig. 7



8/60

Fig. 8





9/60

Fig. 9

## LENS SELECTION CRITERION DATABASE

NAME	
CUSTOMER CODE	
AGE	
LENS POWER	
LENS FUNC- TION	THICKNESS
	WEIGHT
	ENDURANCE
	UV-PROTECTION
COLORS	
BUDGET	
INTENDED USE	

Fig. 10

## LENS DATABASE

MANUFACTURER'S NAME	
MODELS	
PURPOSE OF USE	
LENS FUNC- TION	THICKNESS
	WEIGHT
	ENDURANCE
	UV-PROTECTION
COLORS	
PRICES	
LENS POWER	

Fig. 11

## Screen at the top of site

You can get spectacles  
fitted to your eyes  
without leaving home on  
the internet!

World first!  
Virtual spectacles store site  
GO→

Site  
information  
• Q&A




Fig. 12

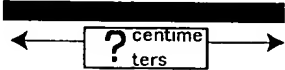
Personal computer screen  
information collecting screen

Give us information of your personal  
computer: needed to get spectacles  
fitted to your eyes

Resolution

☐ 600x800    ☐ \*\*\*X\*\*\*  
☐ \*\*\*X\*\*\*

How long is this line on your monitor  
screen in centimeters?



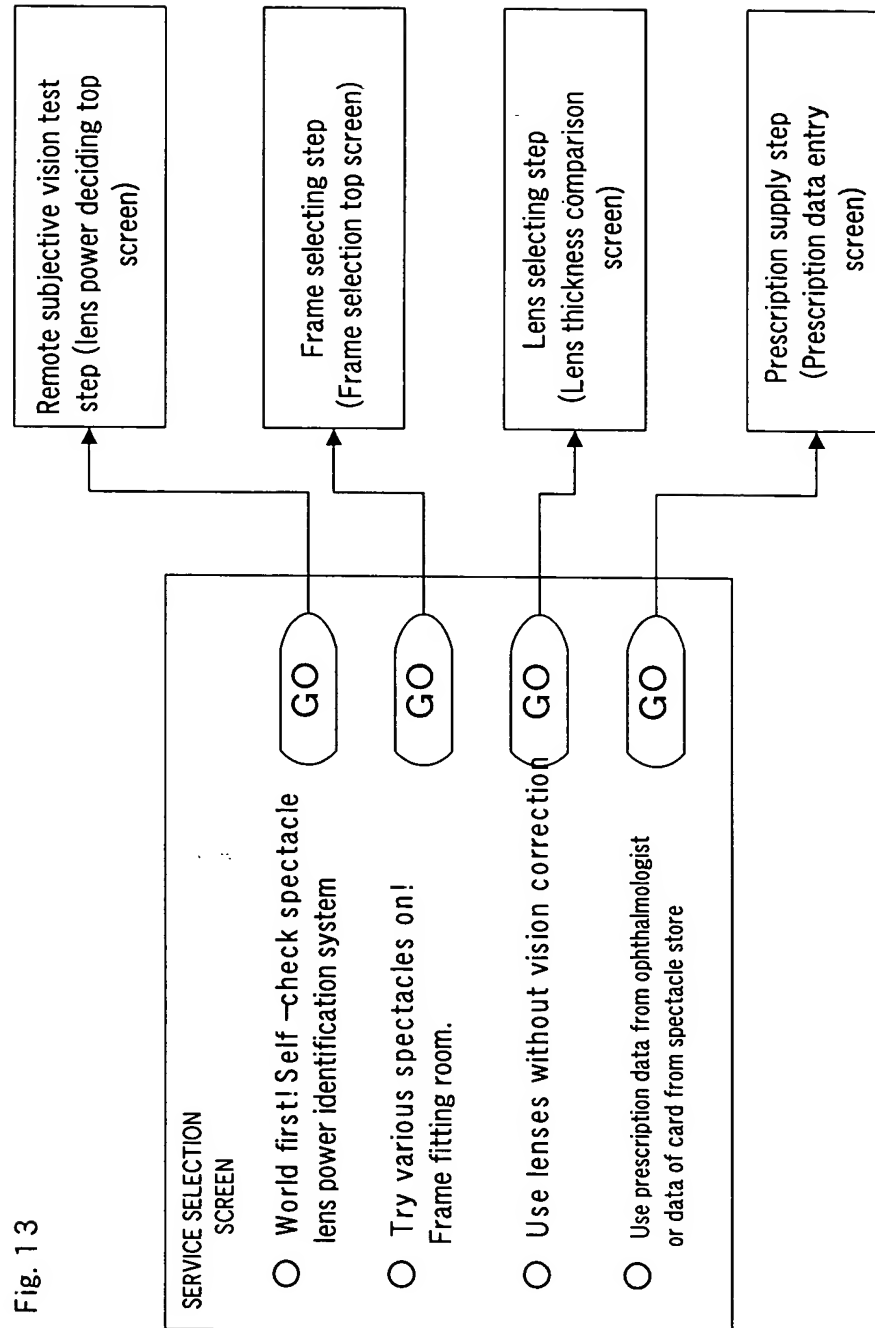



Fig. 14

## Frame selecting top screen

Which frame do you want?

Male Female Unisex



Plastic ☐ ☐

Metal ☐ ☐

Two-point ☐ ☐

Nairoll ☐ ☐

Combination ☐ ☐

SG ☐ ☐

Fig. 15

## PD measurement screen

Measure the position of your  
pupil at the center of lens

PD measurement system



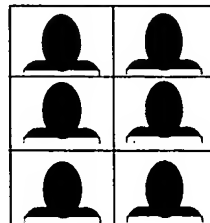
Fig. 16

## Facial image selection screen

On which face do you want to try spectacles?

☐ Use model face

Male      Female



☐ Use my self-portrait

Fig. 17(A)

## Self-portrait upload screen

Which is your picture data?

1. Use digital camera picture data  
GO→

2. Use picture data obtained  
by scanner  
GO→

Fig. 17(B)

Upload facial portrait in accordance  
of help navigation

Use digital camera  
picture<help  
navigation


- > 1. 2. 3. 4.

Store

Fig. 18

## Virtual frame selection screen


Try various frames on and save the ones you like for now (Up to four frames)



Save for now ☐

Store image ☐

Saved frames



Plastic

Metal

Two-point

Nairoll

Combination

SG

Detailed search

Price range ▼

Brand ▼

○

○

○

○

**XYZ 5550**

Price for complete set of spectacles

**5,000YEN**

See different color

○

○

○


○

◀Return
Next▶

Fig. 19

## Different color display screen


Try various frames on and save the ones you like for now (Up to four frames)



Save for now ☐

Store image ☐

Saved frames



Plastic

Metal

Two-point

Nairoll

Combination

SG

Detailed search

Price range ▼

Brand ▼

○

○

○

○

XYZ 5550

XYZ 5550

XYZ 5550

XYZ 5550

Price for complete set of spectacles

Price for complete set of spectacles

Price for complete set of spectacles

Price for complete set of spectacles

5,000YEN

5,000YEN

5,000YEN

5,000YEN

RED

BLUE

GREEN

SILVER

○

○

○

○


◀Return
Next▶


16/60

Fig. 20

## Saved-item confirmation screen

Confirm saved frames and select the one that you want to buy



















Buy a set of the frame on the image and colored 

List of purchase

XYZ 5550	Pink 40%
----------	----------

XYZ 5550  
Price for complete set of spectacles  
**5,000 YEN**

Colored lens


Pink		
Blue		
Green		
Red		
		
		
		
Colorless		

◀ Empty your shopping basket

Fig. 21


## Purchased frame confirmation screen

You buy the frame



XYZ 5550  
Price for complete set of spectacles  
**5,000 YEN**

Colored lens

Pink 40%	
----------	---

Price for colored lens  
**+2,000 YEN**

**Total 7,000 YEN**

▶ Cancel

▶ Buy



Fig. 22

### Lens power selecting screen for getting spectacles

Which lens power data do you use  
for the spectacles on this order?

- ☐ Use lens power data tested on this site
- ☐ Use lens without vision correction
- ☐ Use prescription data from ophthalmologist  
or data of card form spectacle store

Fig. 23

## Prescription data entry screen

Enter lens power

•PD

Right eye  ▼  ▼  ▼

Left eye  ▼  ▼  ▼

• Pull-down display on lens power data

...  
 +0.25  
 -0.25  
 -0.50  
 -0.75  
 -1.00  
 ...

• Pull-down display on astigmatic axis data

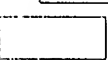
$180^{\circ} \pm 22.5^{\circ}$   
 $135^{\circ} \pm 22.5^{\circ}$   
 $90^{\circ} \pm 22.5^{\circ}$   
 $45^{\circ} \pm 22.5^{\circ}$   
 $0^{\circ} \pm 22.5^{\circ}$

Fig. 24

## Lens thickness comparison

Which lens do you want for your spectacles?

Itemization of purchase

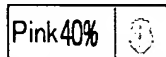


XYZ 5550

Price for complete set of spectacles

5,000 YEN

Colored lens



Price for colored lens

+2,000 YEN

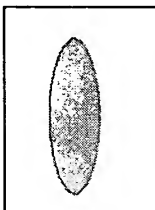
Total 7,000 YEN

Thickness are displayed in accordance with your lens power.

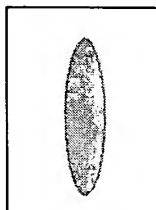
Standard lens

Thin lens

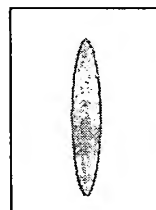
Thin lens without distortion



Lens price  
+0 YEN

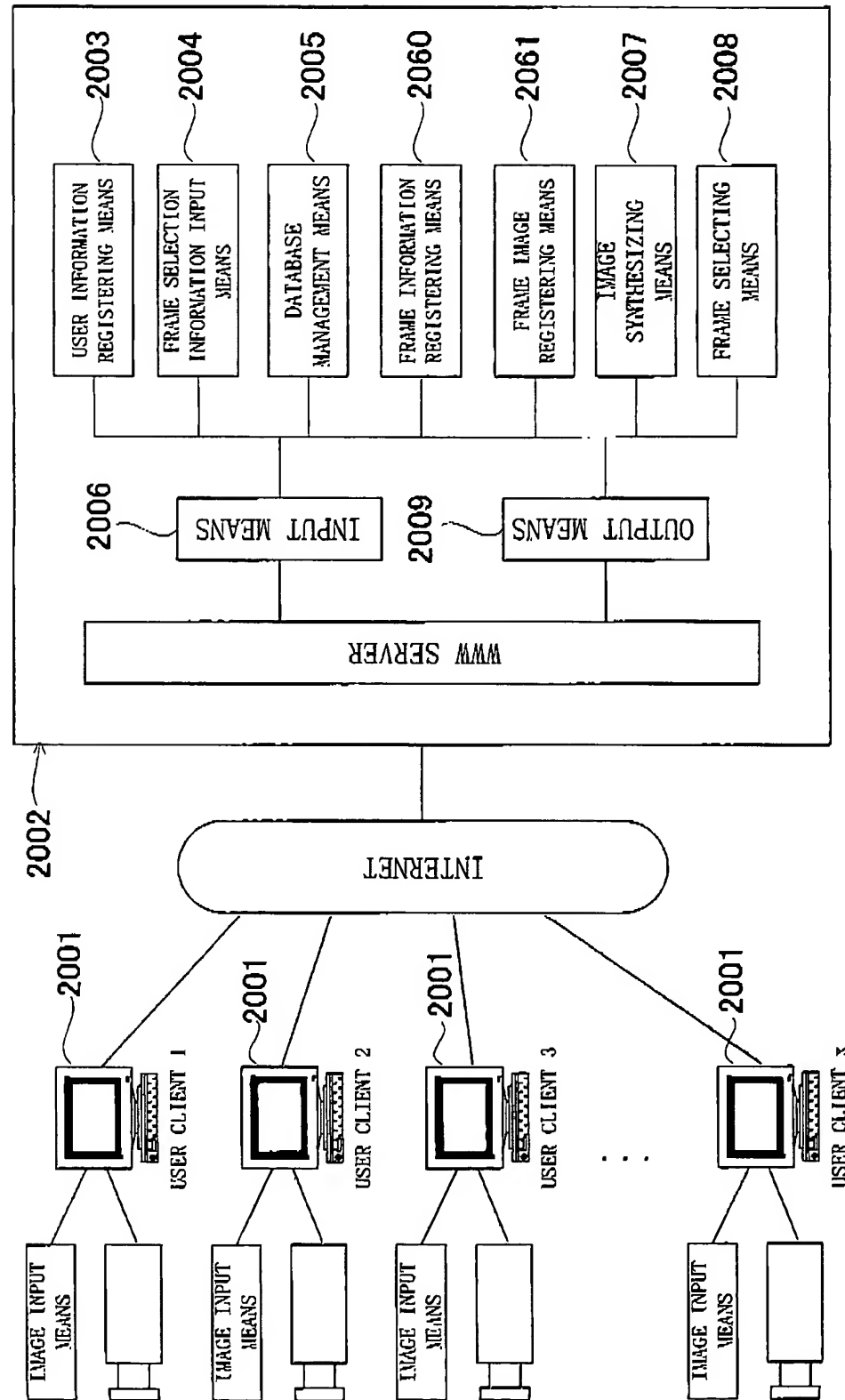


Lens price  
+3,000 YEN



Lens price  
+5,000 YEN

Fig. 25



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Fig. 26

## USER INFORMATION DATABASE

NAME
DATE OF BIRTH
ADDRESS
PHONE NUMBER
CONDITION OF EYES
REQUEST CONCERNING SPECTACLES
USER INFORMATION IDENTIFICATION (ID)
USER PASSWORD
USER CODE
FACSIMILE NUMBER
E-MAIL ADDRESS
URL
COMPUTER ENVIRONMENTS

Fig. 27

## DATA INPUT FROM FRAME SELECTION INFORMATION INPUT MEANS

SELECTION CRITERIA (IN TEXT DATA)	FASHION
	BUDGET
	FUNCTION
	FITNESS TO THE FACE
FUNCTION 1 (FRONT VIEW OF FACE IMAGE)	1. DISTANCE BETWEEN RIGHT AND LEFT PUPILS
	2. WIDTHS FROM CENTER OF RIGHT AND LEFT PUPILS TO FEET OF EARS
	3. OPENING ANGLES OF TEMPLES DETERMINED BASED ON 2
FUNCTION 2 (SIDE VIEW OF FACE IMAGE)	1. DISTANCE FROM FEET OF EARS TO TOPS OF CORNEAS
	2. BENDING POSITIONS OF TEMPLES
	3. DISTANCES BETWEEN TOPS OF CORNEAS AND FOOT OF NOSE
	4. OPENING ANGLES OF PAD BRIDGES DETERMINED BASED ON 3

FIG. 28

## FRAME FUNCTIONAL STRUCTURE DATABASE

SIZE	ACTUAL SIZE (44 $\phi$ ~ 62 $\phi$ )
FEATURE	SHAPE-MEMORY ALLOY
	SUPER-LIGHT WEIGHT
	SUPER-ELASTICITY
	SIMULTANEOUS FUNCTION AS SUNGLASSES
	PORTABILITY
	OTHERS
FUNCTION 1 (FRONT VIEW OF FACE IMAGE)	1. DISTANCE BETWEEN RIGHT AND LEFT PUPILS
	2. WIDTHS FROM CENTER OF RIGHT AND LEFT PUPILS TO FEET OF EARS
	3. OPENING ANGLES OF TEMPLES DETERMINED BASED ON 2
FUNCTION 2 (SIDE VIEW OF FACE IMAGE)	1. DISTANCE FROM FEET OF EARS TO TOPS OF CORNEAS
	2. BENDING POSITIONS OF TEMPLES
	3. DISTANCES BETWEEN TOPS OF CORNEAS AND FOOT OF NOSE
	4. OPENING ANGLES OF PAD BRIDGES DETERMINED BASED ON 3

Fig. 29

## FRAME DECORATIVE STRUCTURE DATABASE

SHAPE	WELLINGTON
	LLOYD
	OVAL
	SQUARE
	TONNEAU
	BOSTON
	BUTTERFLY
	AUTO (DROP)
MATERIAL	RIMLESS (TWO-POINT, THREE-POINT)
	METAL + NYLON RIMMED
	CELLULOID + NYLON RIMMED
	METAL
	CELLULOID
	BROW LINE
	COMBINATION
	OTHERS
BRAND	VARIOUS BRANDS
COLOR	VARIOUS COLORS

FIG. 30

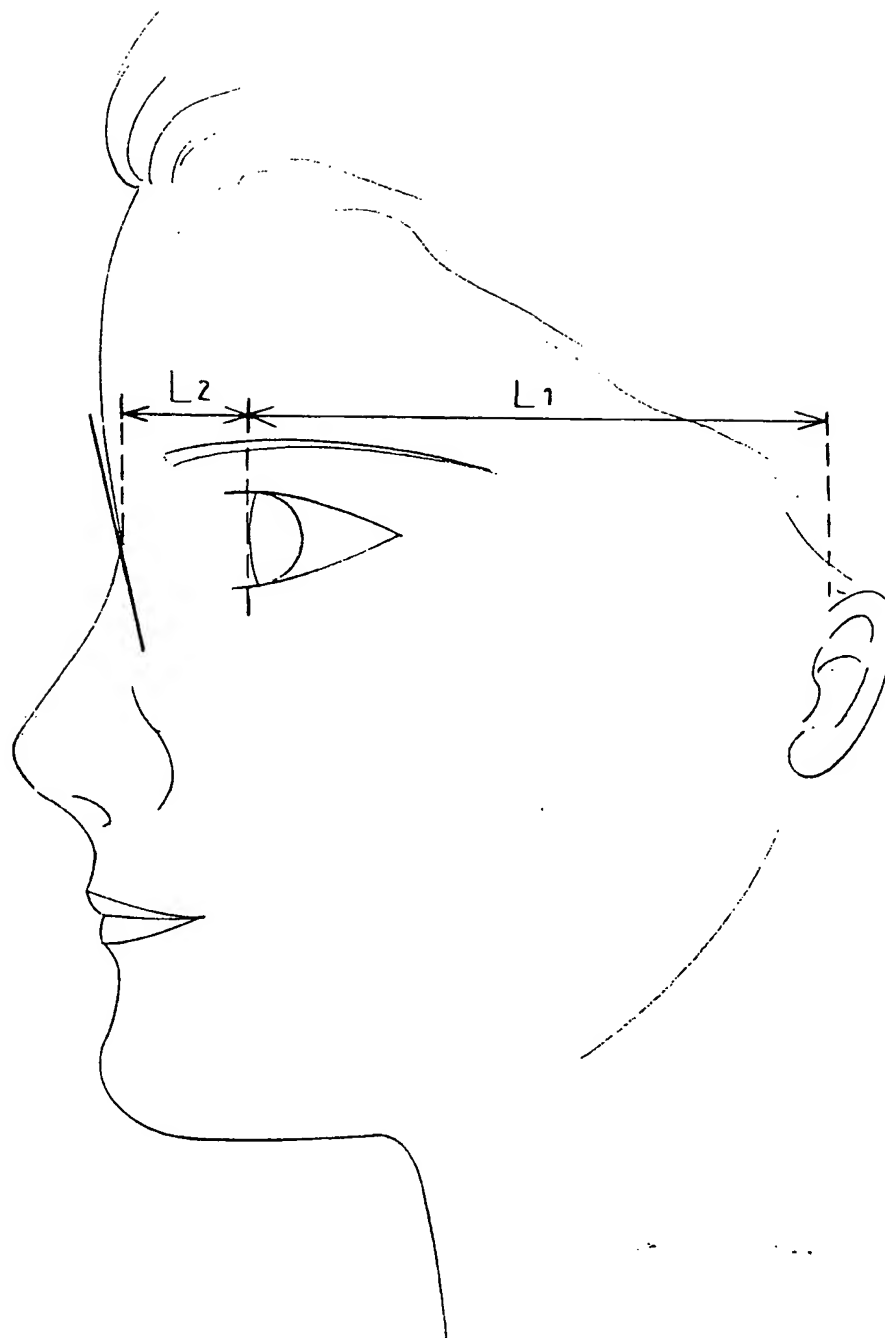




FIG. 31

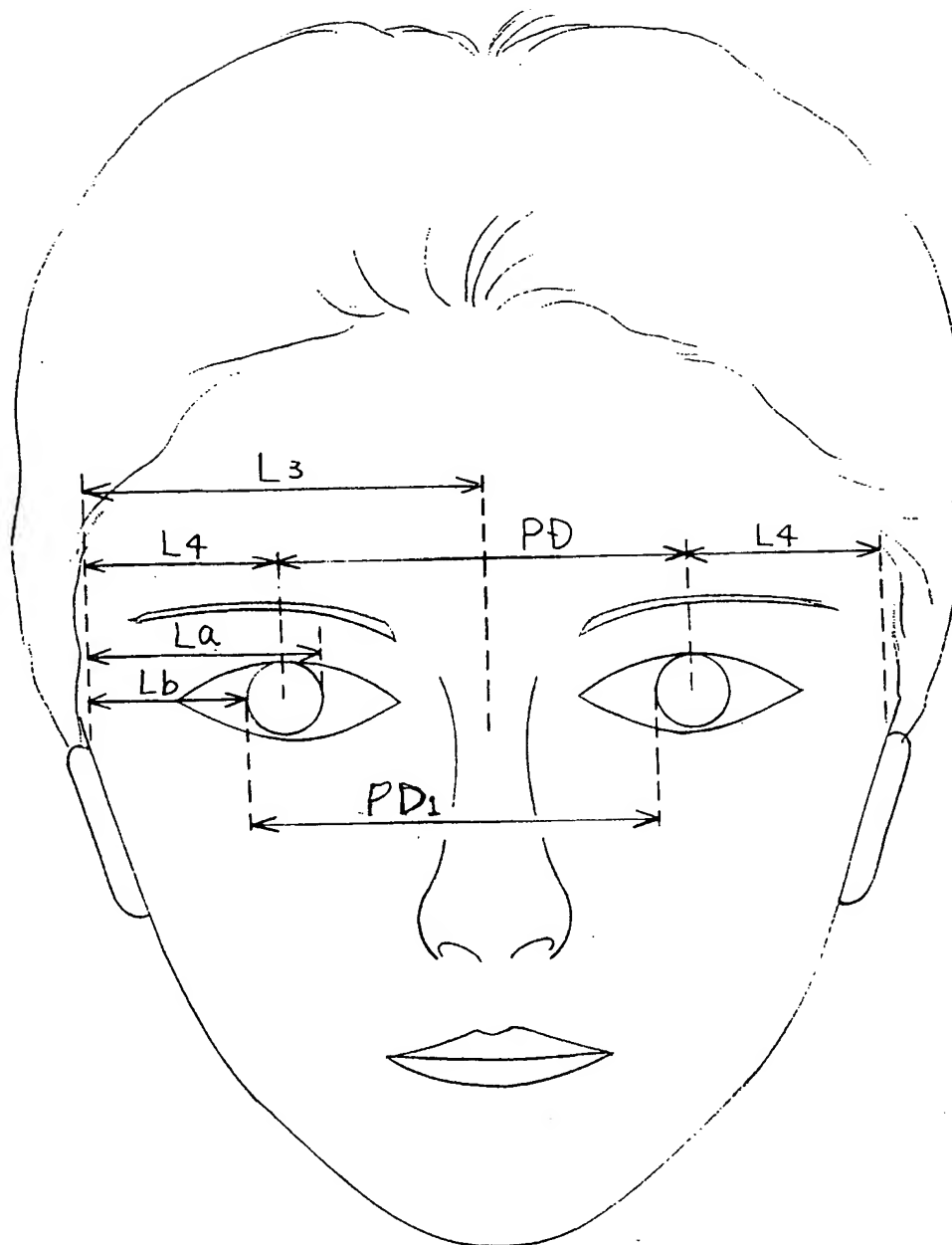


FIG. 32

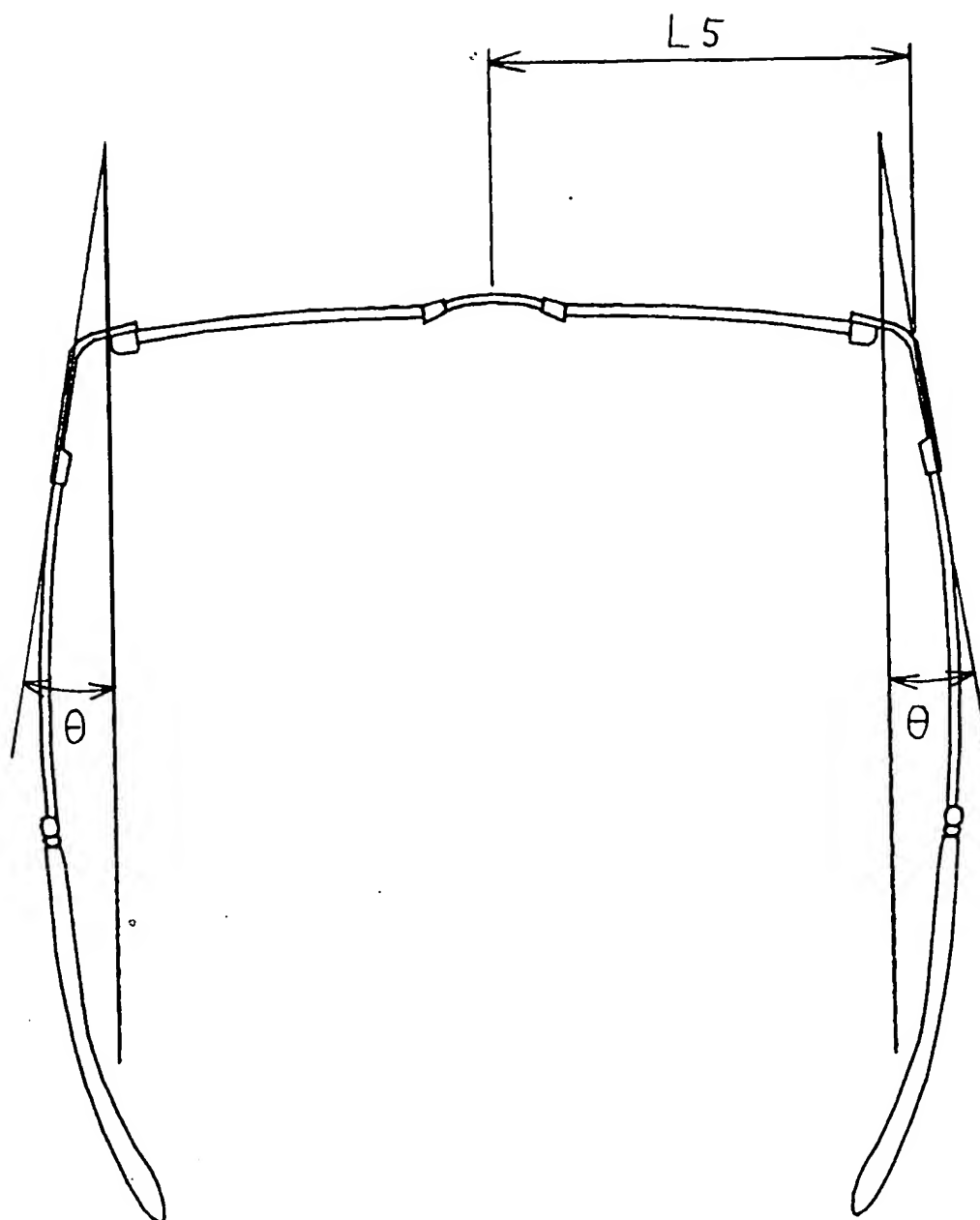


FIG. 33

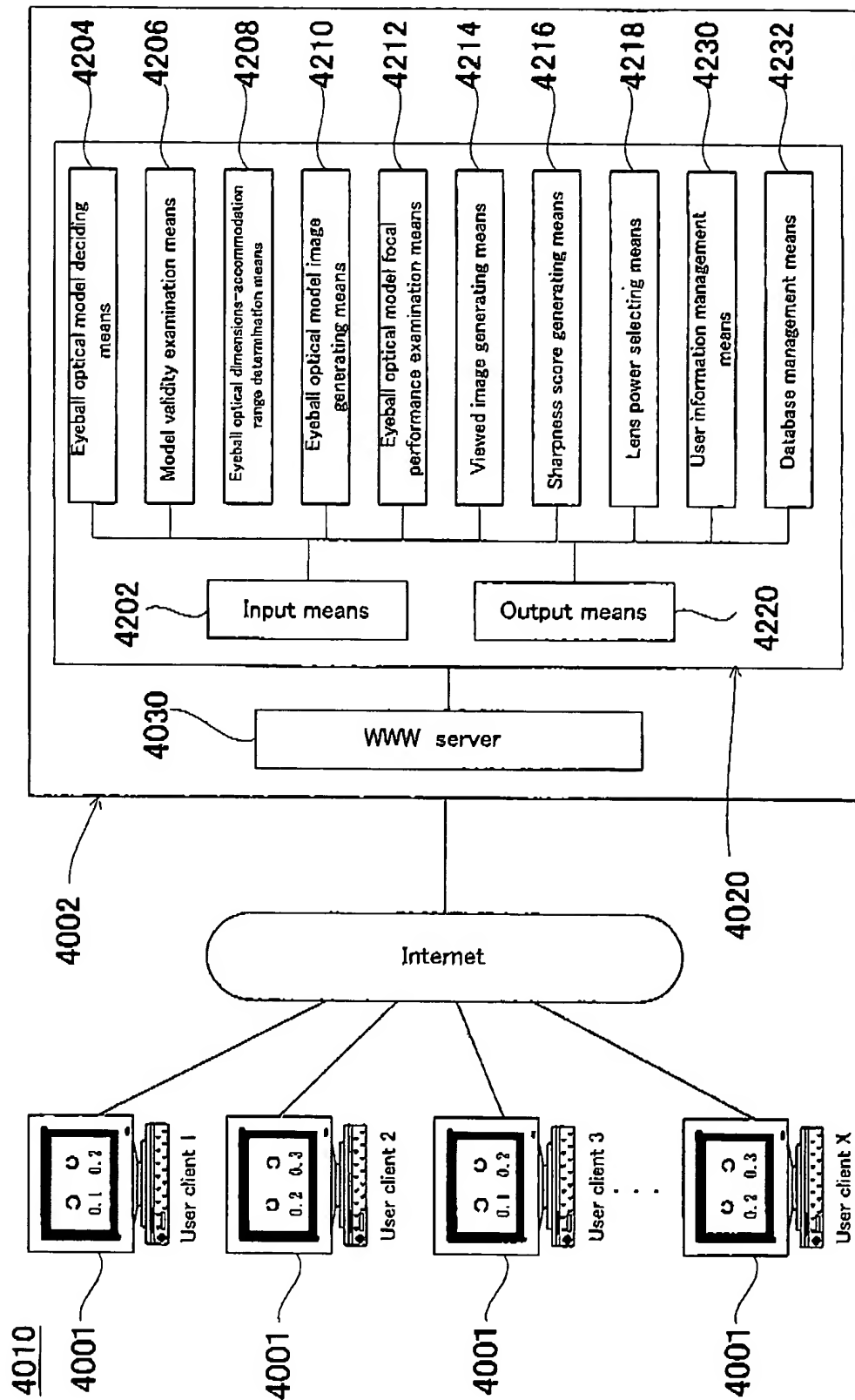


Fig. 34

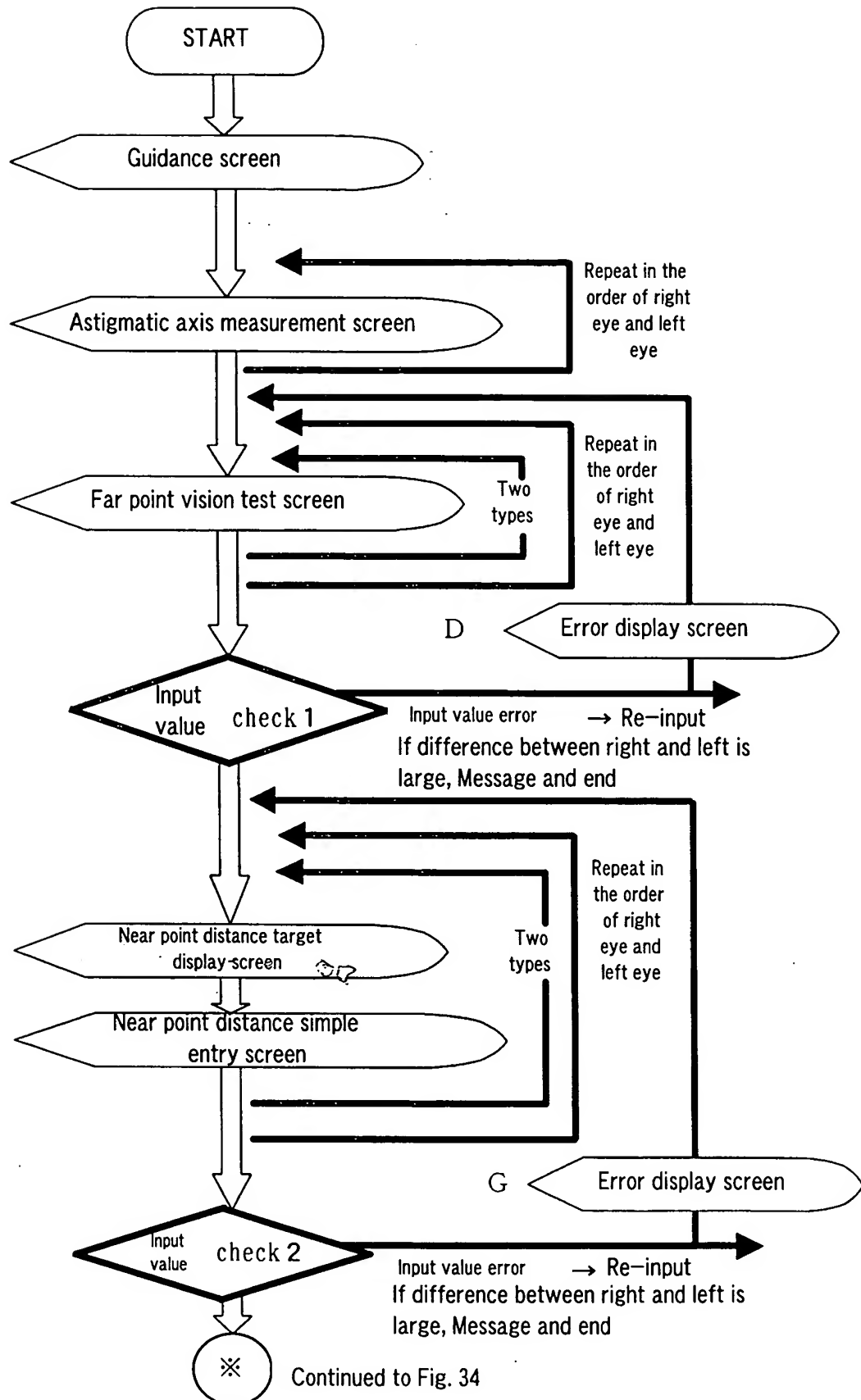
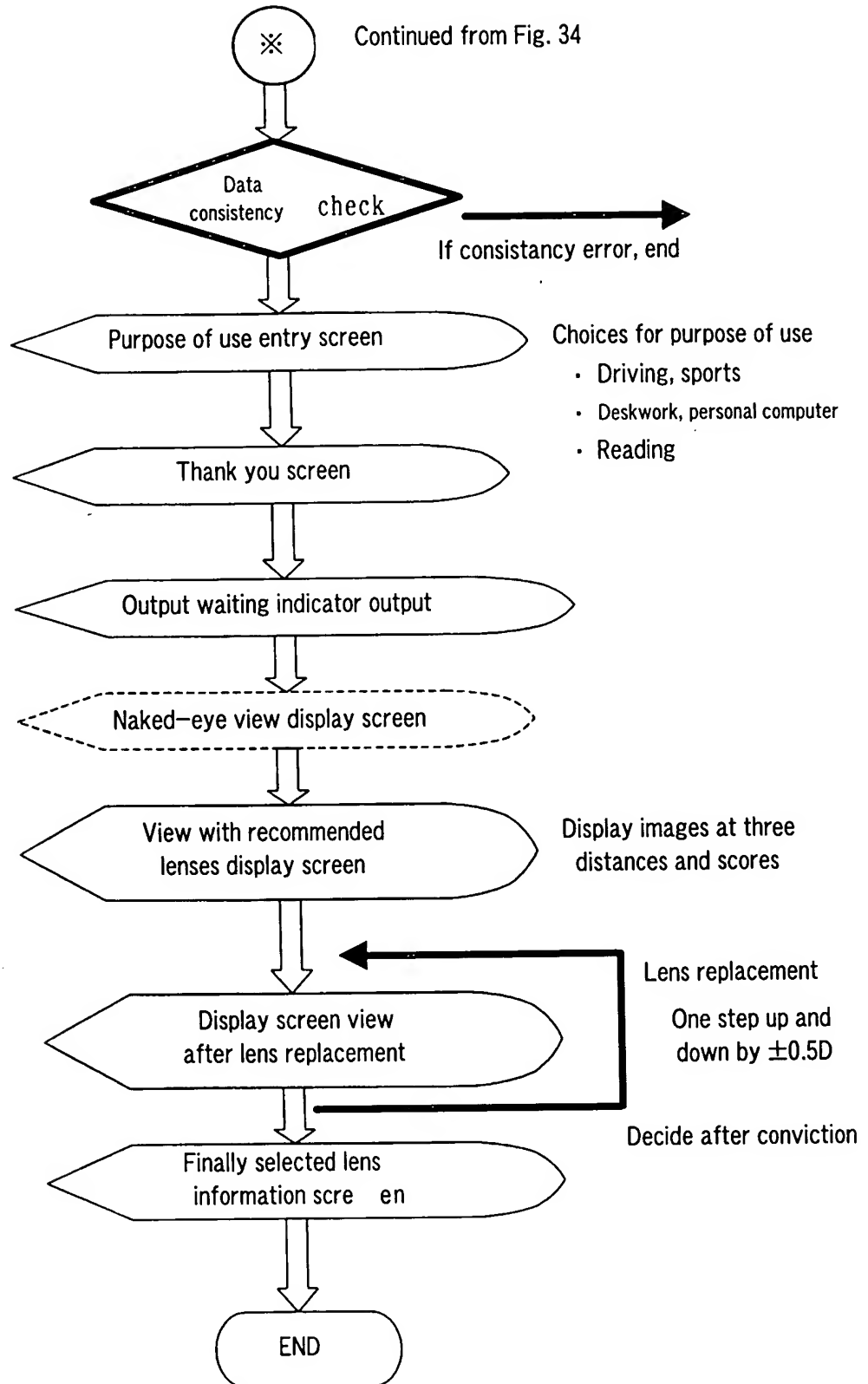


Fig. 35



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Fig. 36

Personal computer screen  
information collecting screen

Give us information of your personal  
computer: needed to get spectacles  
fitted to your eyes

Resolution

- ☐ 600X800      ☐ \*\*\*X\*\*\*  
☐ \*\*\*X\*\*\*

How long is this line on your monitor  
screen in centimeters?

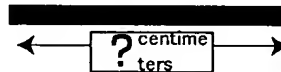


Fig. 37

Entry of personal information and wearing conditions

These items are important information for deciding optimal lens power.  
Enter correctly.

Name

Sex

☐ male ☐ female

Date of Birth

year  month  day

Height

cm

Fig. 38

**Entry of personal information and wearing conditions**

These items are important information for deciding optimal lens power. Enter correctly.

In which situation do you mainly use?

- ☐ Reading
- ☐ Deskwork
- ☐ Personal computer
- ☐ Driving

What is your profession?

- ☐ Office work
- ☐ Sales
- ☐ Domestic help
- ☐ Student
- ☐ Others

Fig. 39

**Lens power check (right eye)**

Follow the following instructions. The right eye is tested. First, four zones hatched with parallel lines are displayed. Move 1 m or more away from the screen and then come up to the position where you can clearly see the lines of any one of the four zones. Remove the spectacles and contact lenses at this step. When watching the displayed target, cover your left eye with a hand so as not to touch the eye.

Fig. 40

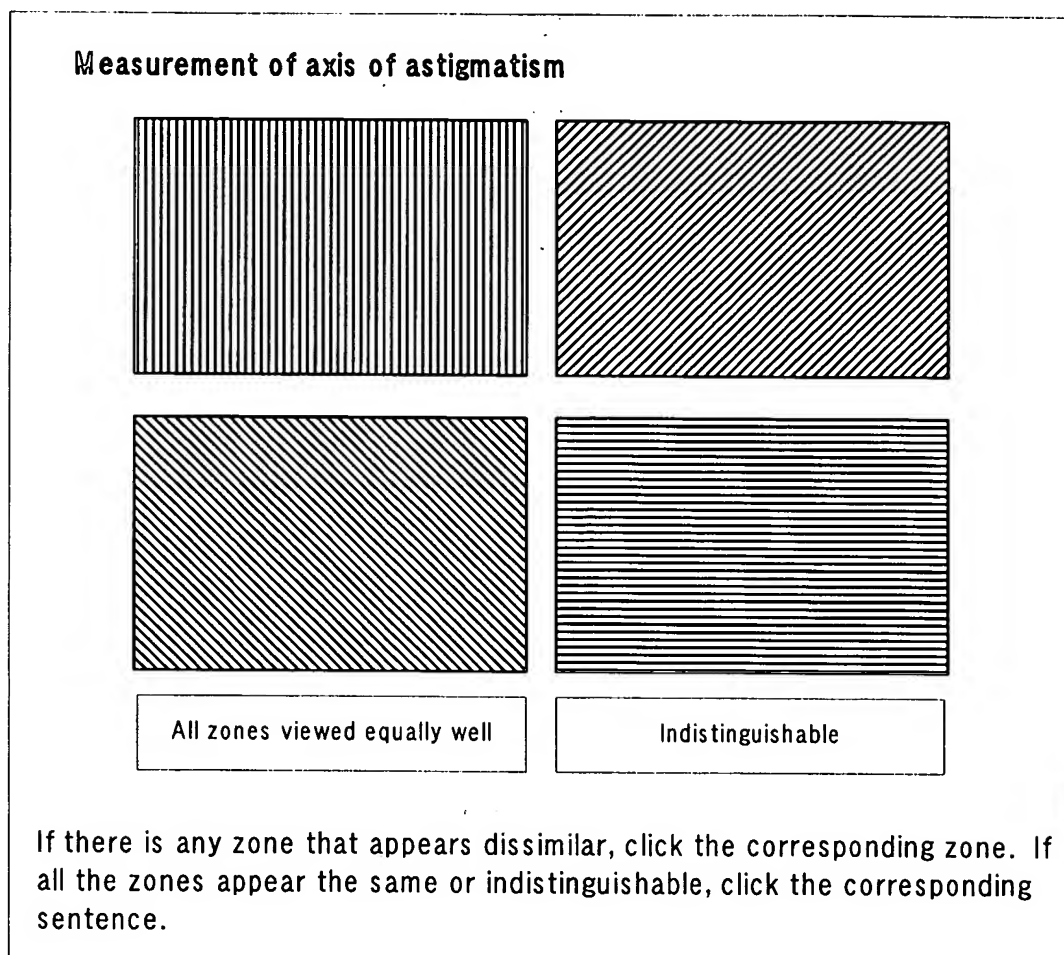


Fig. 41

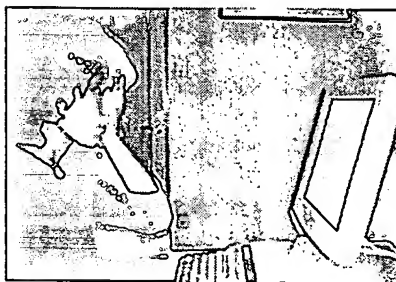




Fig. 42



Fig. 43











 1	 2	 3	 4	 5		
 10	 9	 8	 7	 6		
Each of these appears as three lines?					<input type="button" value="Yes"/>	<input type="button" value="No"/>

Fig. 44

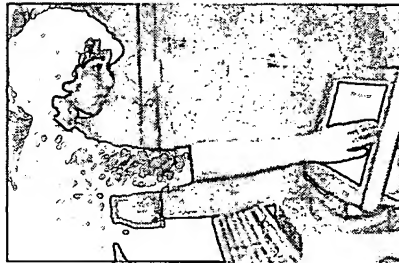
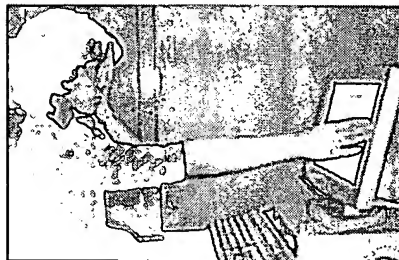


Fig. 45



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Fig. 46



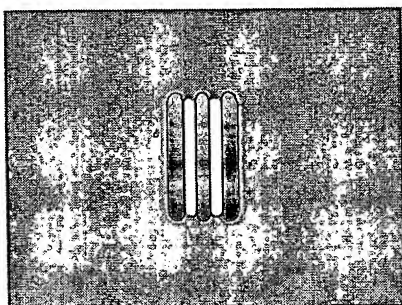
36/60

Fig. 47

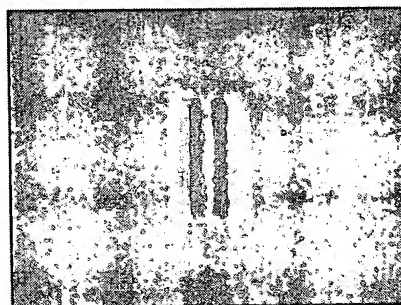


Fig. 48

Example where target appears as three lines



Example where target does not appear as three lines



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Fig. 49



Fig. 50

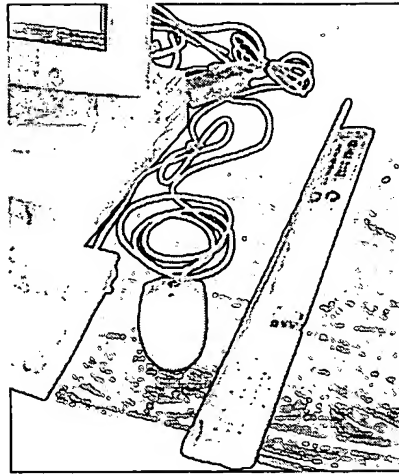
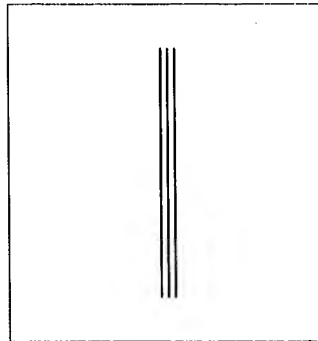


Fig. 51

**Measurement of near point distance**

First, come close as much as possible. Then, move away to the position where you can clearly see three lines. Measure the distance from the screen and the eye and input it in centimeters.

Fig. 52(A)

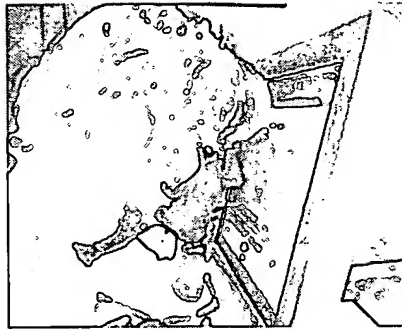
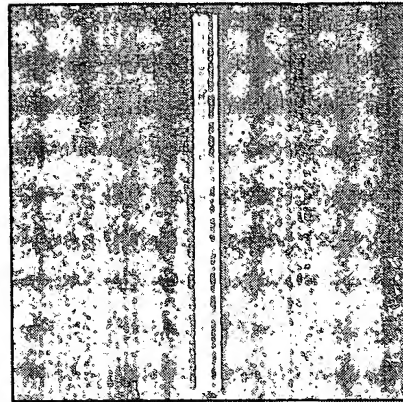


Fig. 52(B)



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Fig. 53(A)



Fig. 53(B)

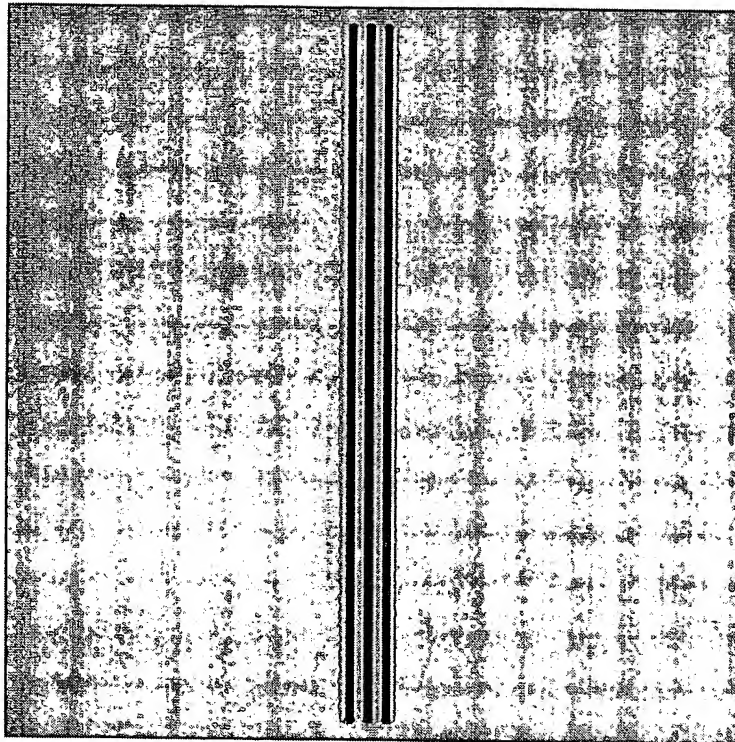




Fig. 54

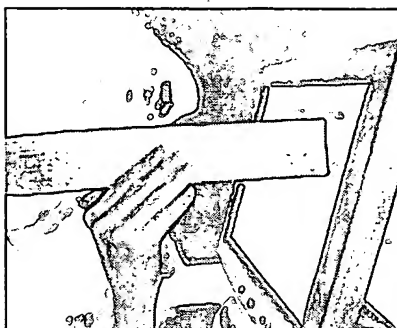
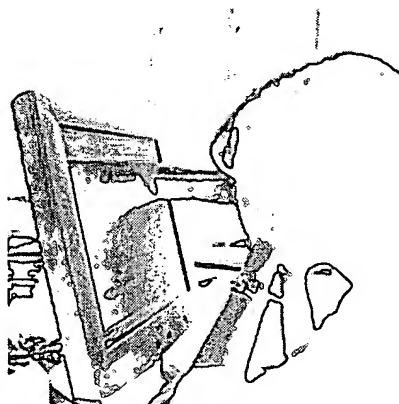


Fig. 55



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Fig. 56

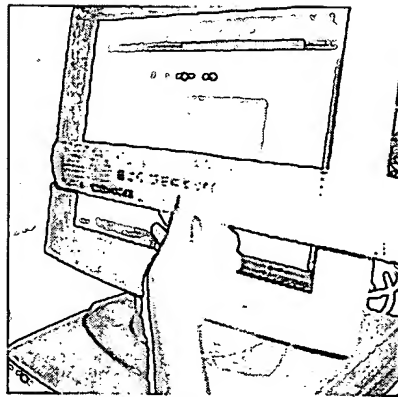


Fig. 57

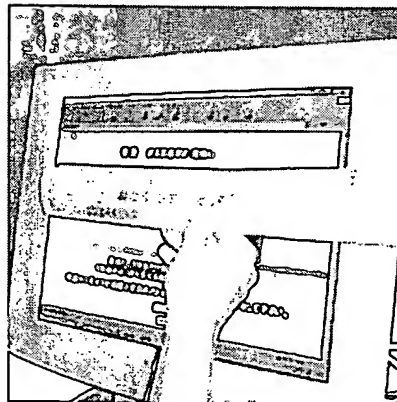


Fig. 58

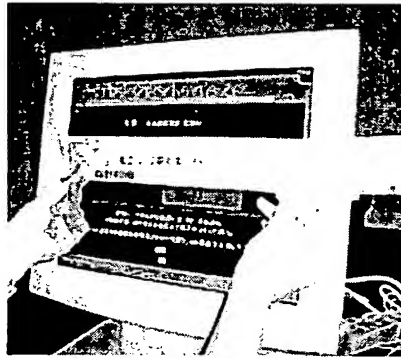
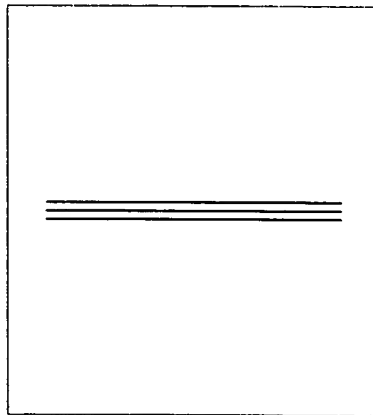


Fig. 59

### Measurement of near point distance



First, come close as much as possible. Then, move away to the position where you can clearly see three lines. Measure the distance from the screen and the eye and input it in centimeters.

Fig. 60



Fig. 61

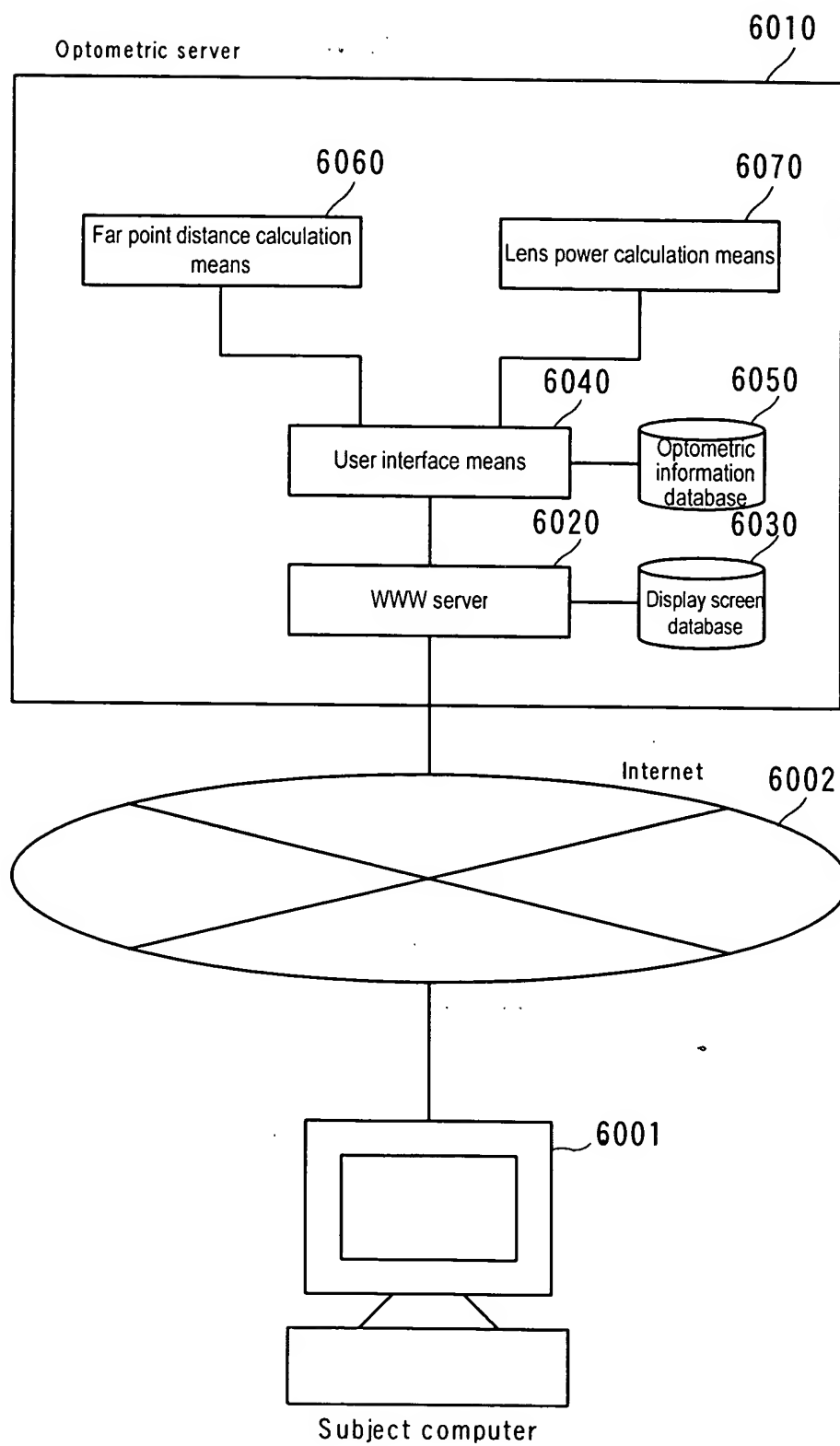
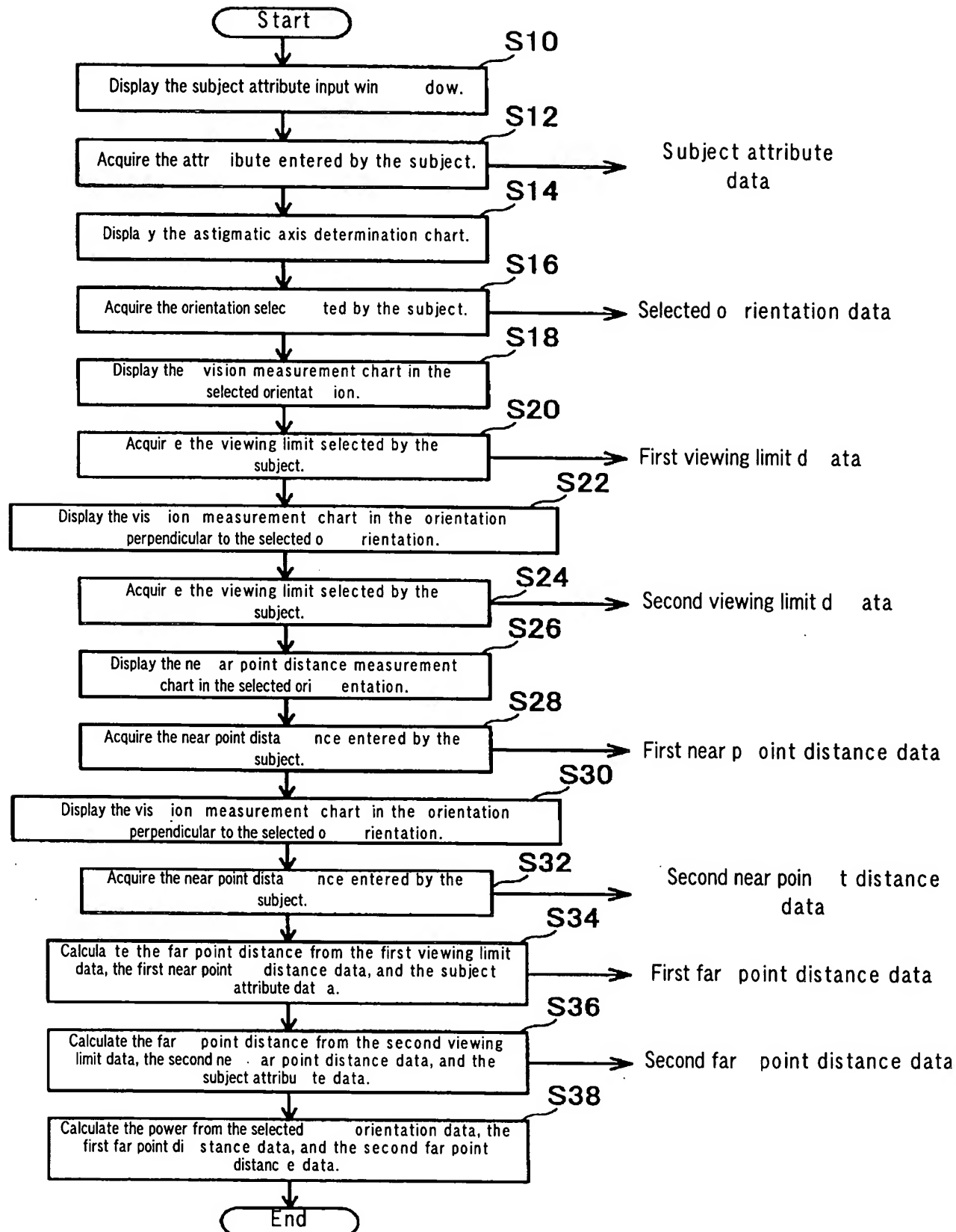


Fig. 62



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Fig. 63

Lens power suitable for you is determined. Microsoft Internet Explorer

File (F) Edit (E) View (V) Favorites (A) Tools (T) Help (H)

*Lens power check*

STEP 1 Entry of personal information and wearing conditions.

These items are important information to be used for determining the optimal lens power. Enter them correctly.

STEP1

Name

Sex

☐ Male ☐ Female

Birthday

2001 Year 12 Month 31 Day

Height

cm

Return Next

Fig. 64

Lens power suitable for you is determined - Microsoft Internet Explorer

File (F) Edit (E) View (V) Favorites (A) Tools (T) Help (H)

# *Lens power check*

**STEP 1** Entry of personal information and wearing conditions.

These items are important information to be used for determining the optimal lens power. Enter them correctly.

**STEP 1**

What do you mainly use it for ?

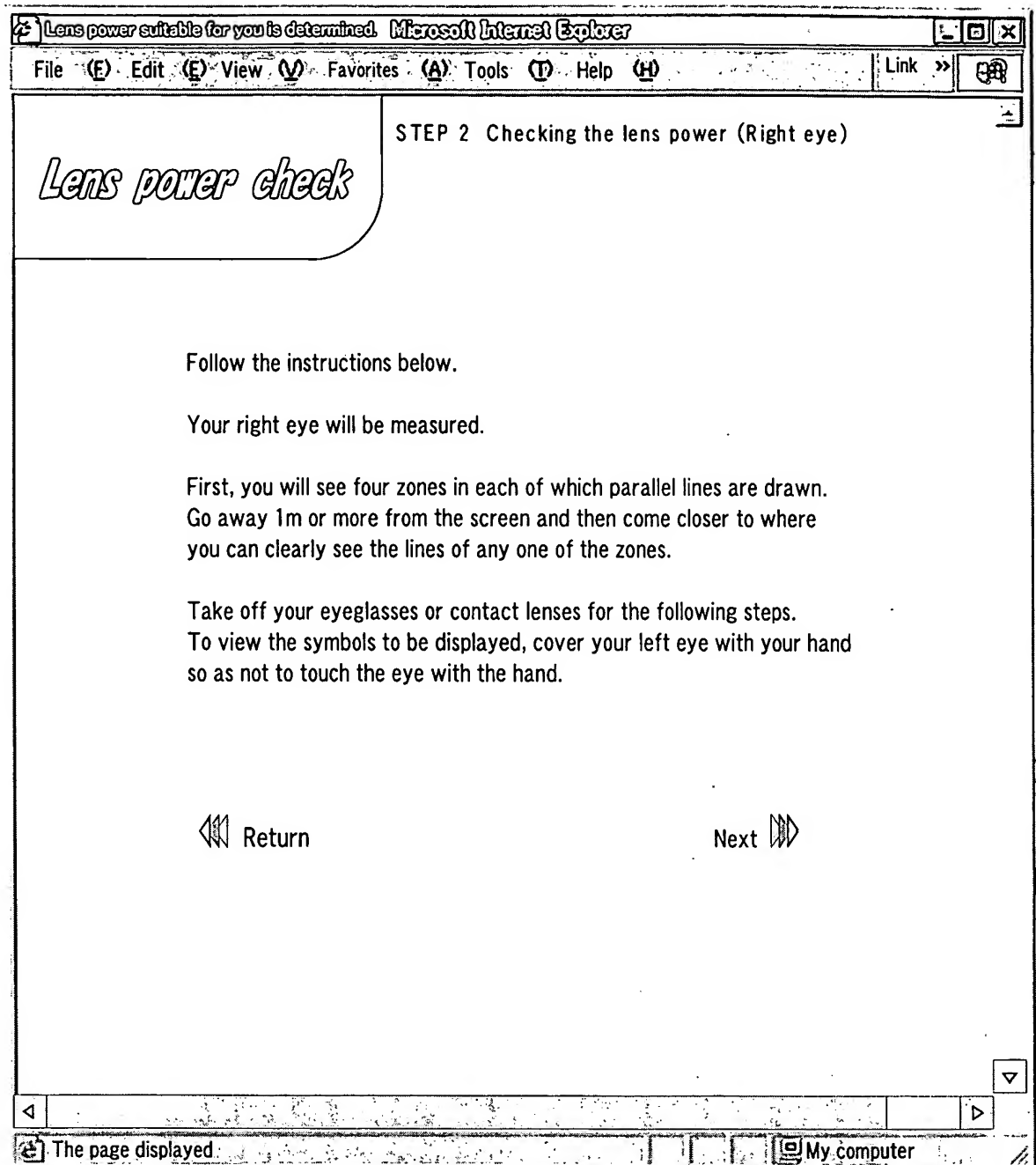
- ☐ Reading
- ☐ Deskwork
- ☐ Personal computer
- ☐ Car driving

Return Next

Return Next

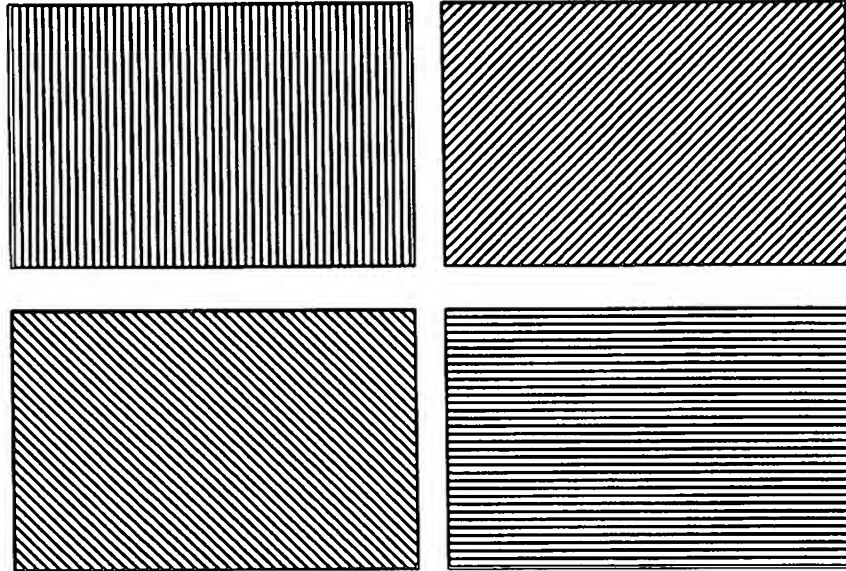


Fig. 65



50/60

Fig. 66

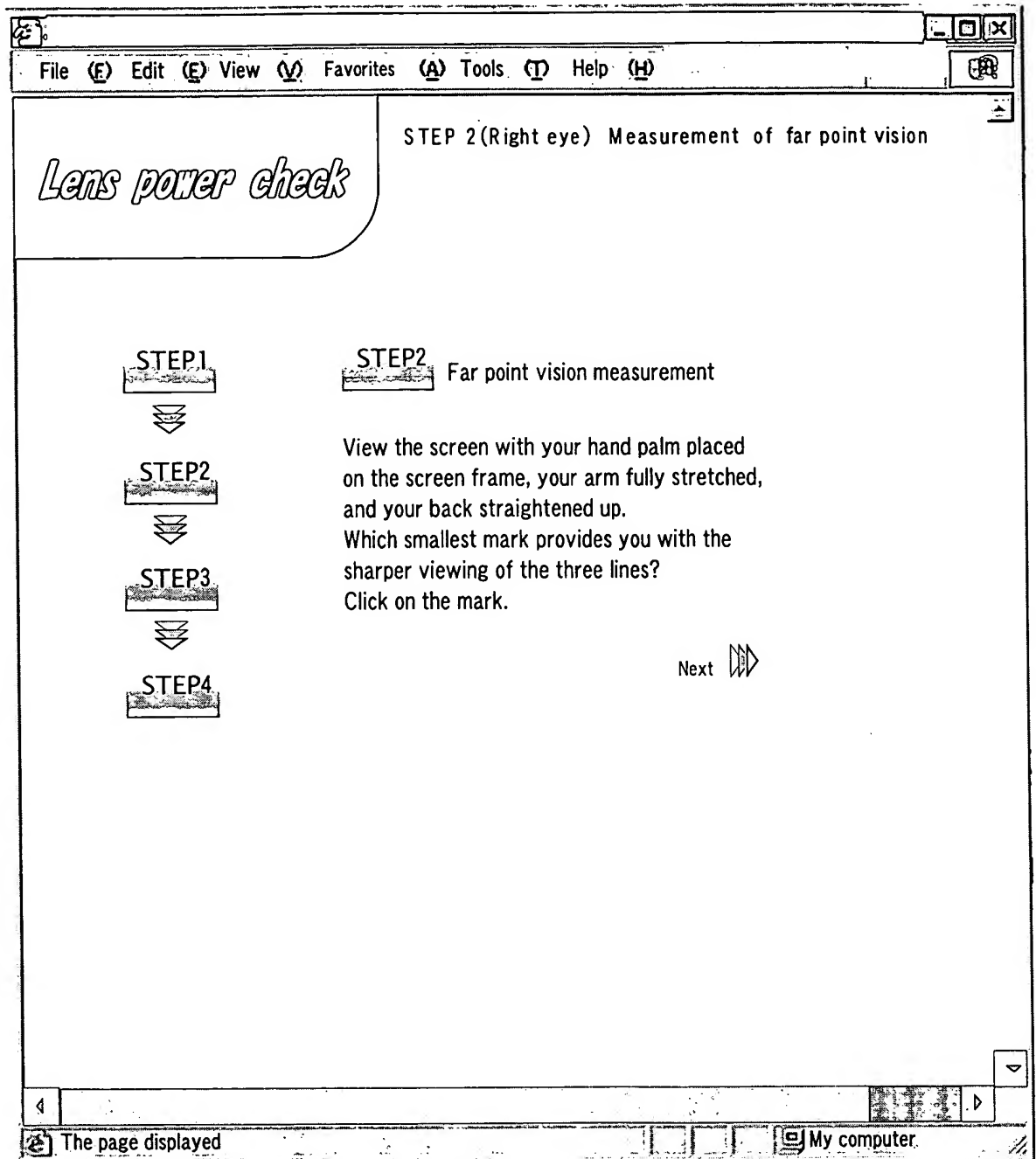
**Measurement of astigmatic axis**

All are viewed in  
the same way.

Indistinguishable











Click on the zone that is viewed differently from the others, if any. If all the zones are viewed in the same way or indistinguishable, click on the corresponding item.

Fig. 67



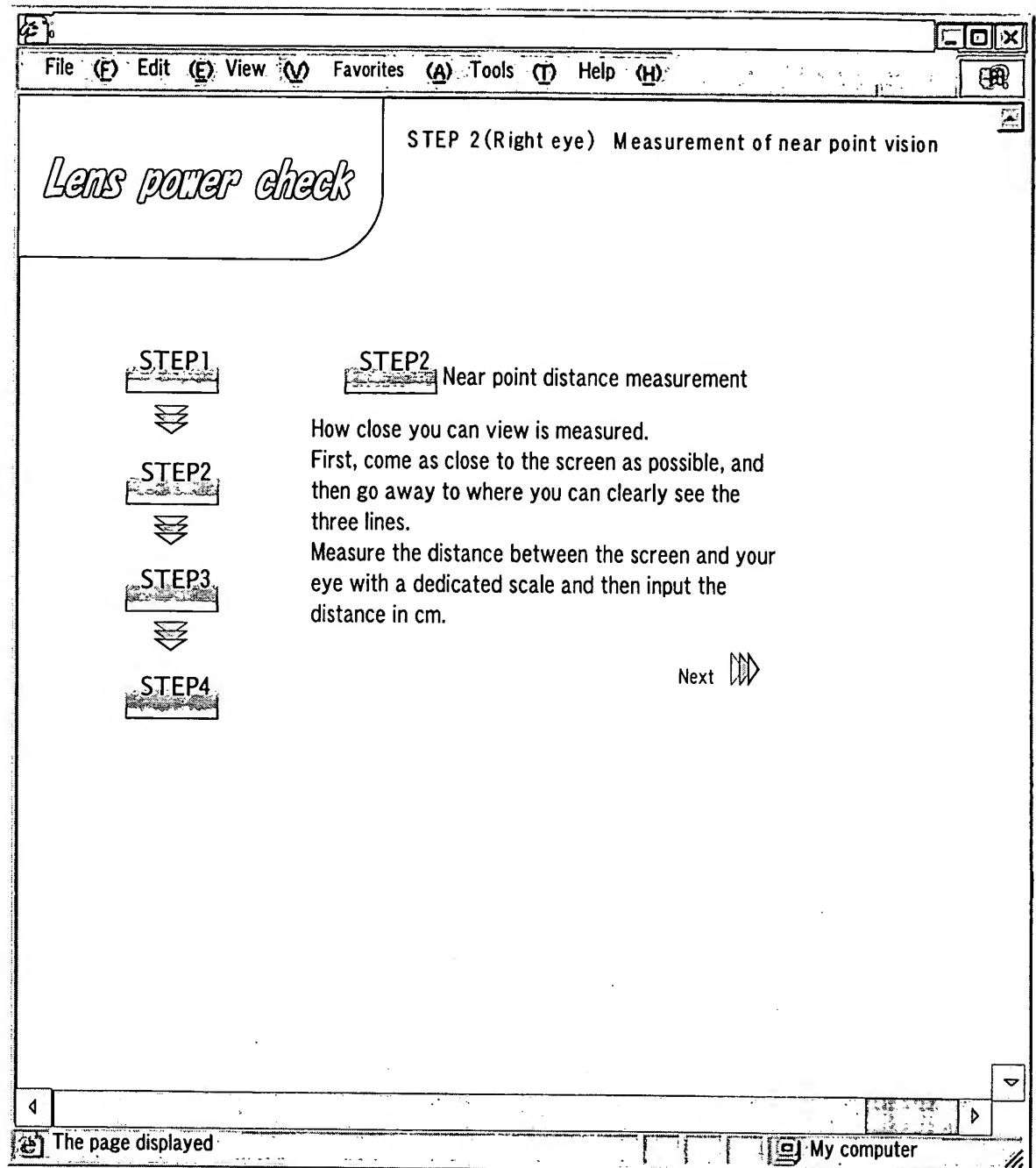
52/60

Fig. 68

Measurement of far point vision					No zone provides the viewing of three lines.
 1	 2	 3	 4	 5	
 10	 9	 8	 7	 6	

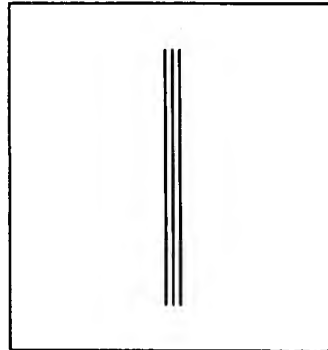
Click on the zone that provides the viewing of three lines. If no zone provides the viewing of three lines, click on the "No zone provides the viewing of three lines."

Fig. 69



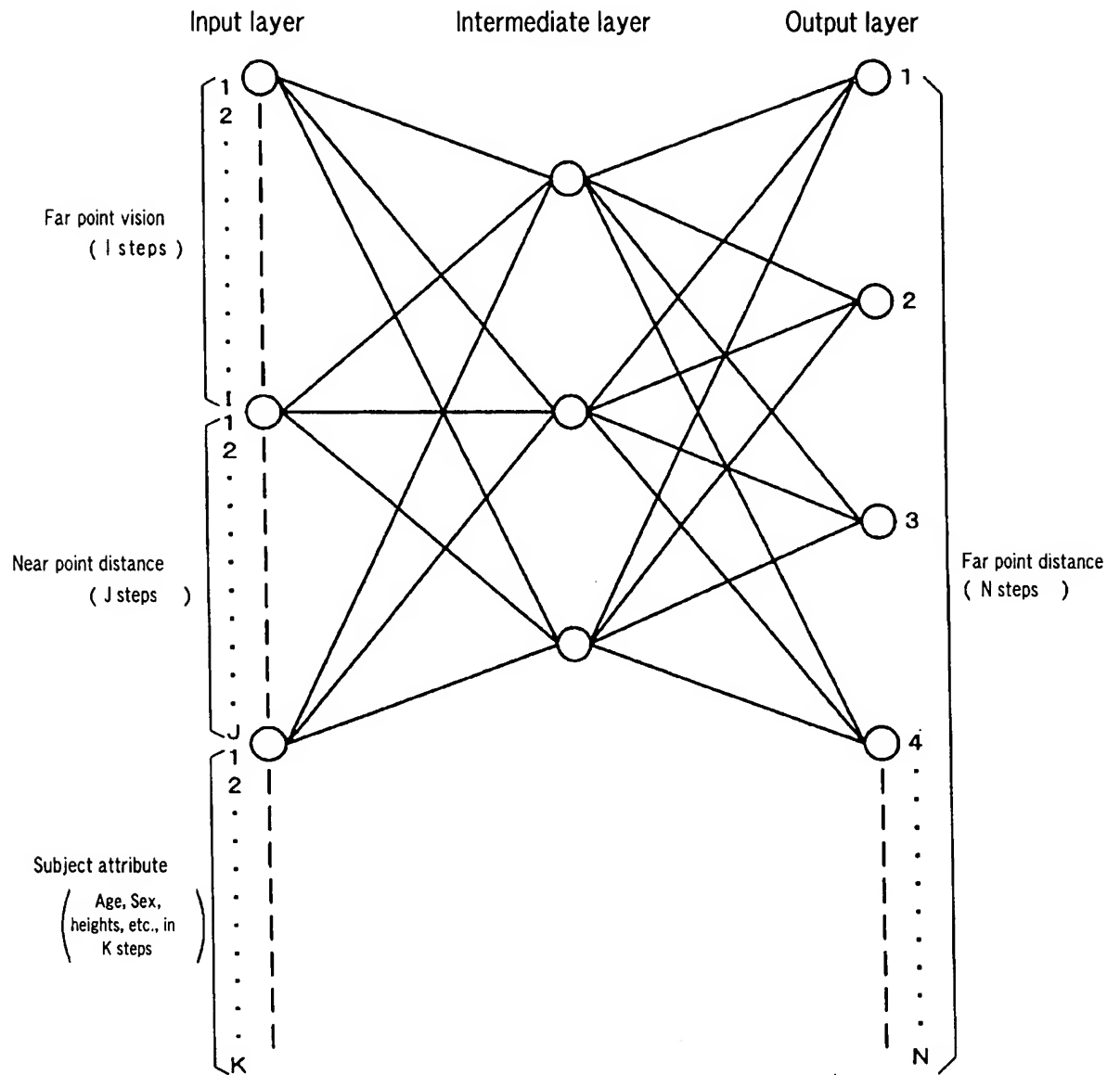
54/60

Fig. 70

**Measurement of near point distance**

First, come as close to the screen as possible, and then go away to where you can clearly see the three lines. Measure the distance between the screen and your eye with a scale and then input the distance in cm.

Fig. 71



5 6 / 6 0

Fig. 72

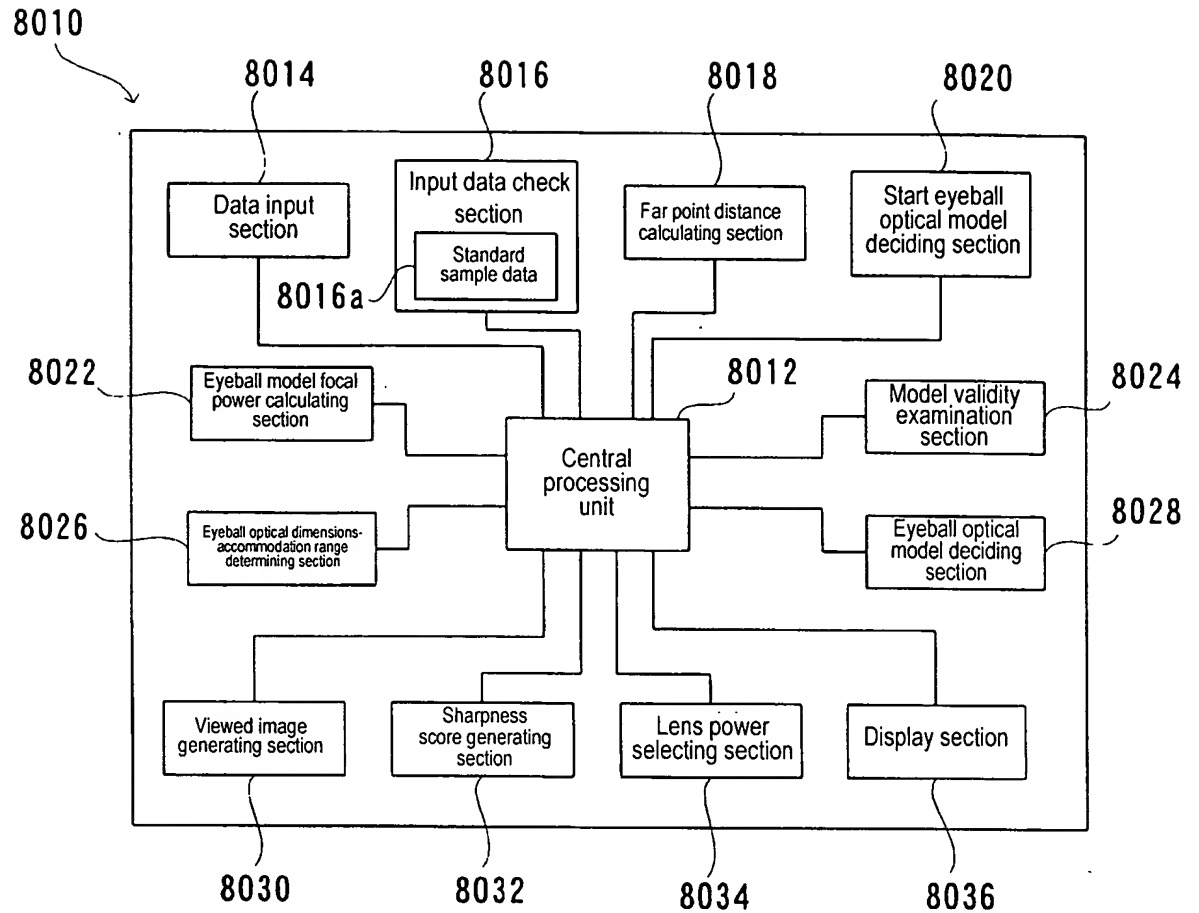


Fig. 73 (a)

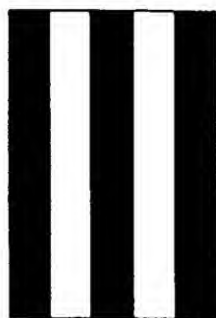


Fig. 73 (b)



Fig. 73 (c)





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Fig. 74

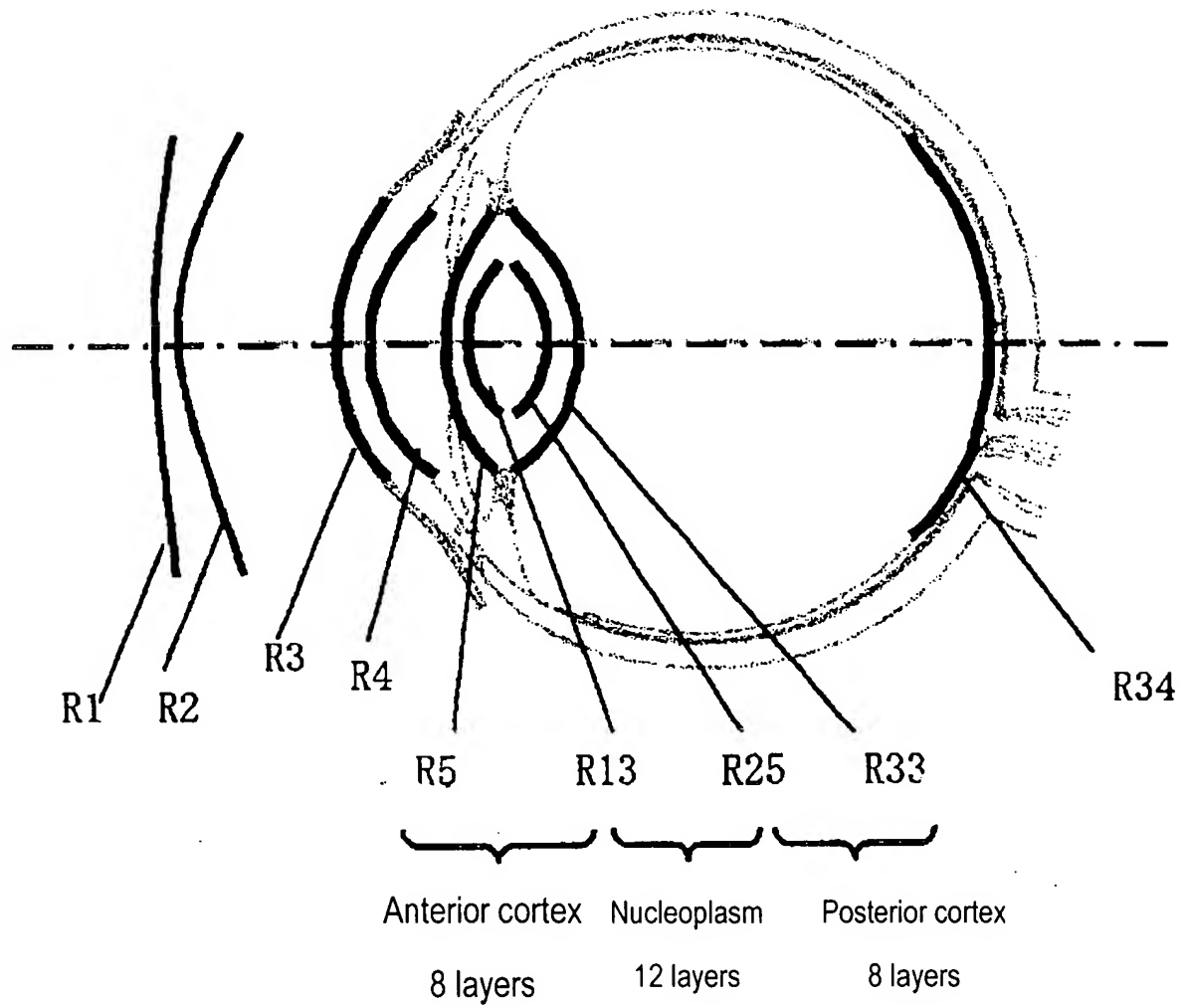
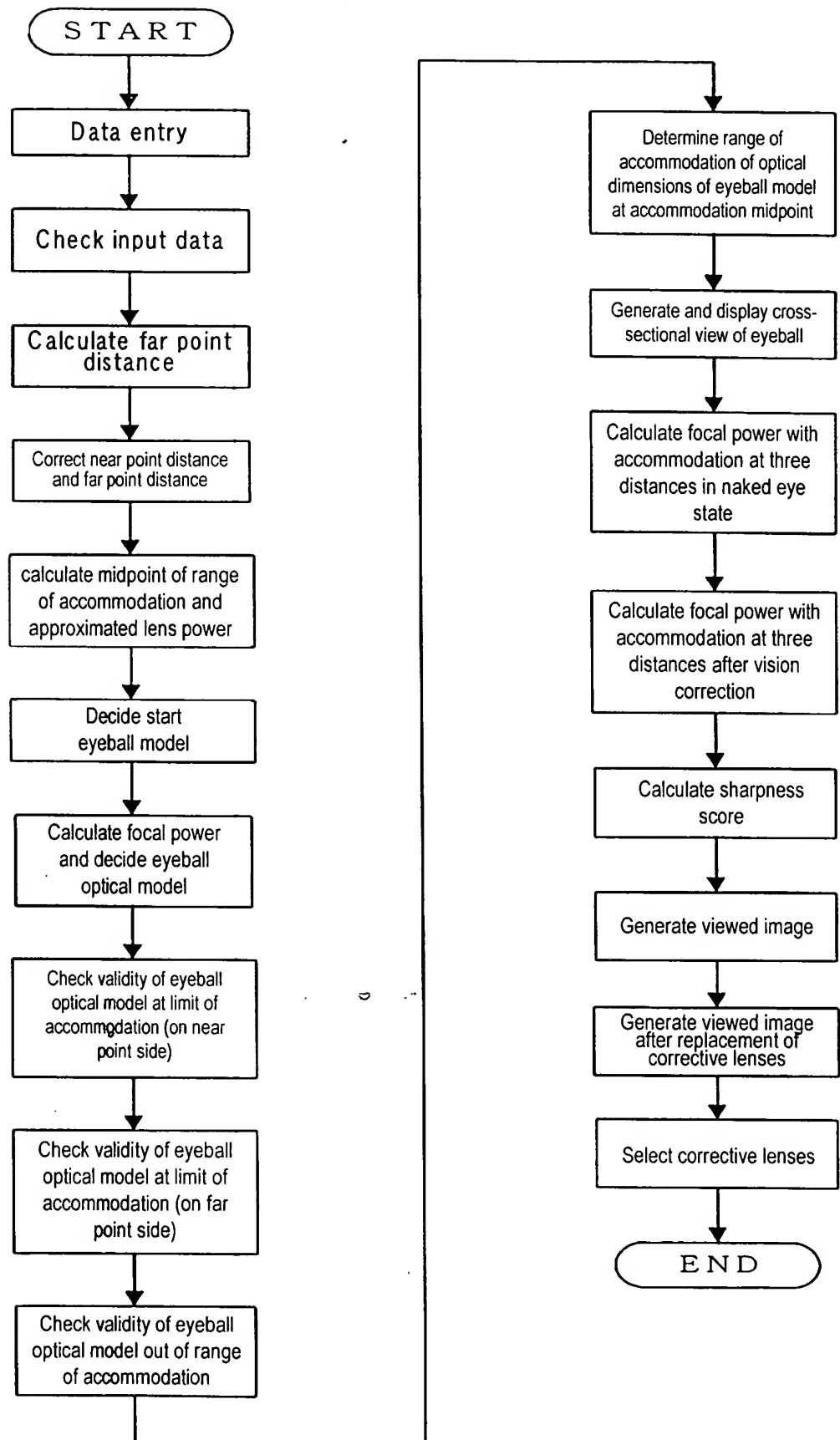


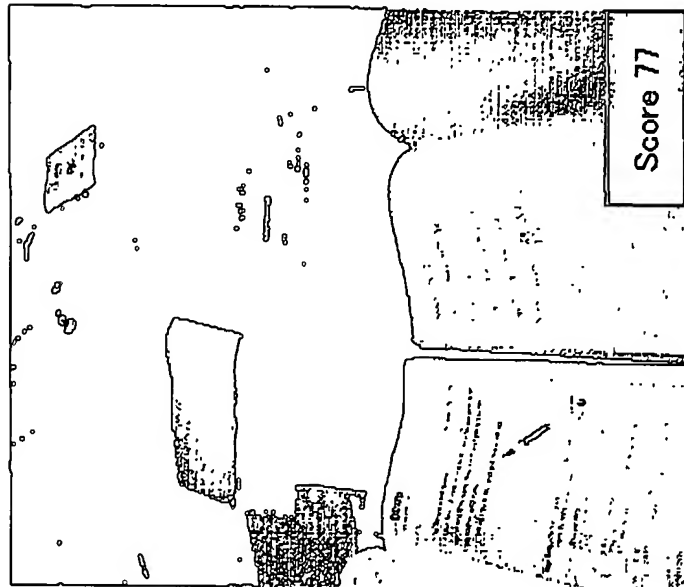
Fig. 75



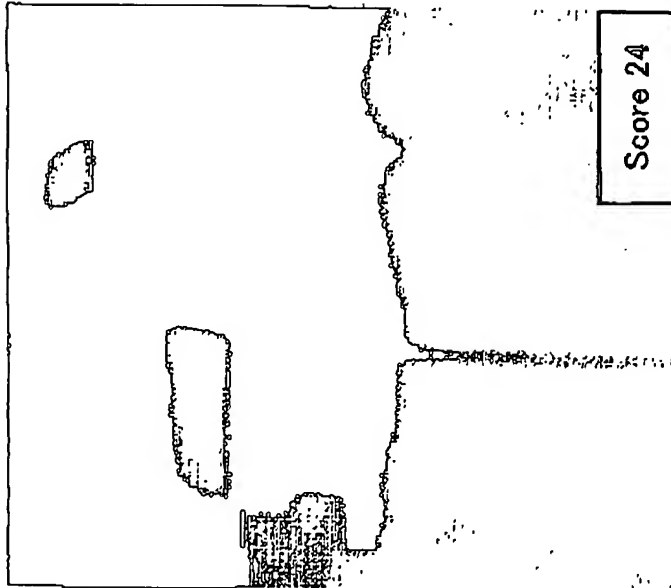
59/60

Fig. 76

Method of representation of the presented image



Viewed image 1

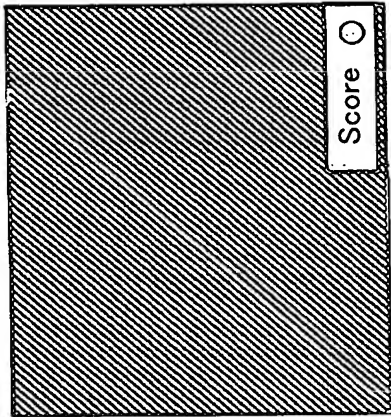
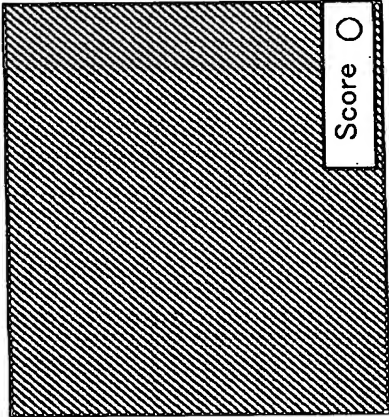
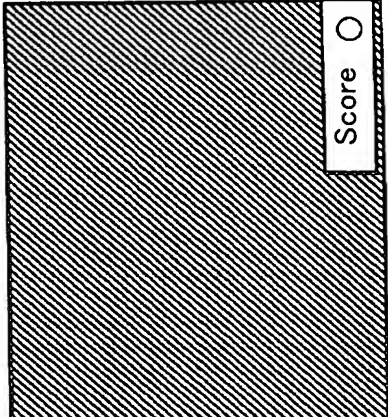
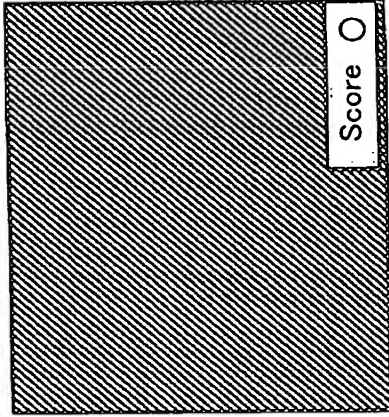
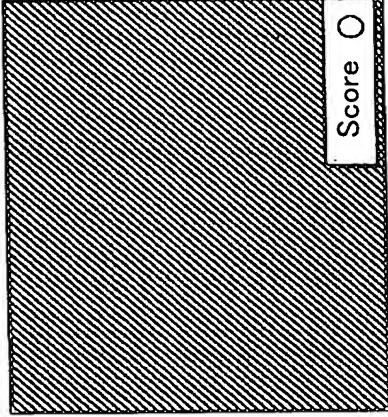
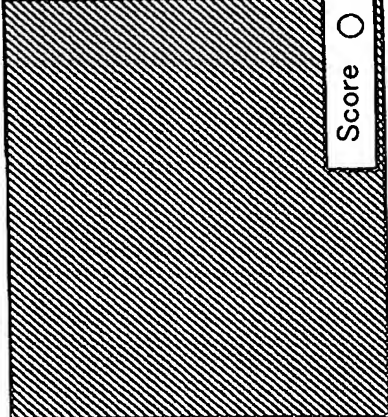


Viewed image 2

The score indicative of the sharpness of the image is written together. Excessively higher scores provide too good viewing and lower scores provide blurry viewing.

Fig. 77

0. 3 m      0. 5 ~ 0. 6 m      5 m

	0. 3 m	0. 5 ~ 0. 6 m	5 m
Right eye	 Score <input type="text"/>	 Score <input type="text"/>	 Score <input type="text"/>
Uncorrected eye			
Corrected eye with lens -3.0D	 Score <input type="text"/>	 Score <input type="text"/>	 Score <input type="text"/>

The way of viewing is indicated in a total of six images, with 3 steps of distances in the horizontal direction and 2 steps of uncorrected and corrected eyes in the vertical direction.  
 This method of representation can display the difference between two lenses with lens 1 and lens 2 represented on the vertical direction.

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